Poplar River
628.16 Cooperative
M26pren Monitoring
Agreement ... data
exchange, Canadian
contribution

STATE DECLIVENING MILLECTION

MAR 12 1990

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1981

FOURTH QUARTER DATA EXCHANGE CANADIAN CONTRIBUTION

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POPLAR RIVER COOPERATIVE MONITORING ARRANGEMENT

1981

FOURTH QUARTER DATA EXCHANGE
CANADIAN CONTRIBUTION

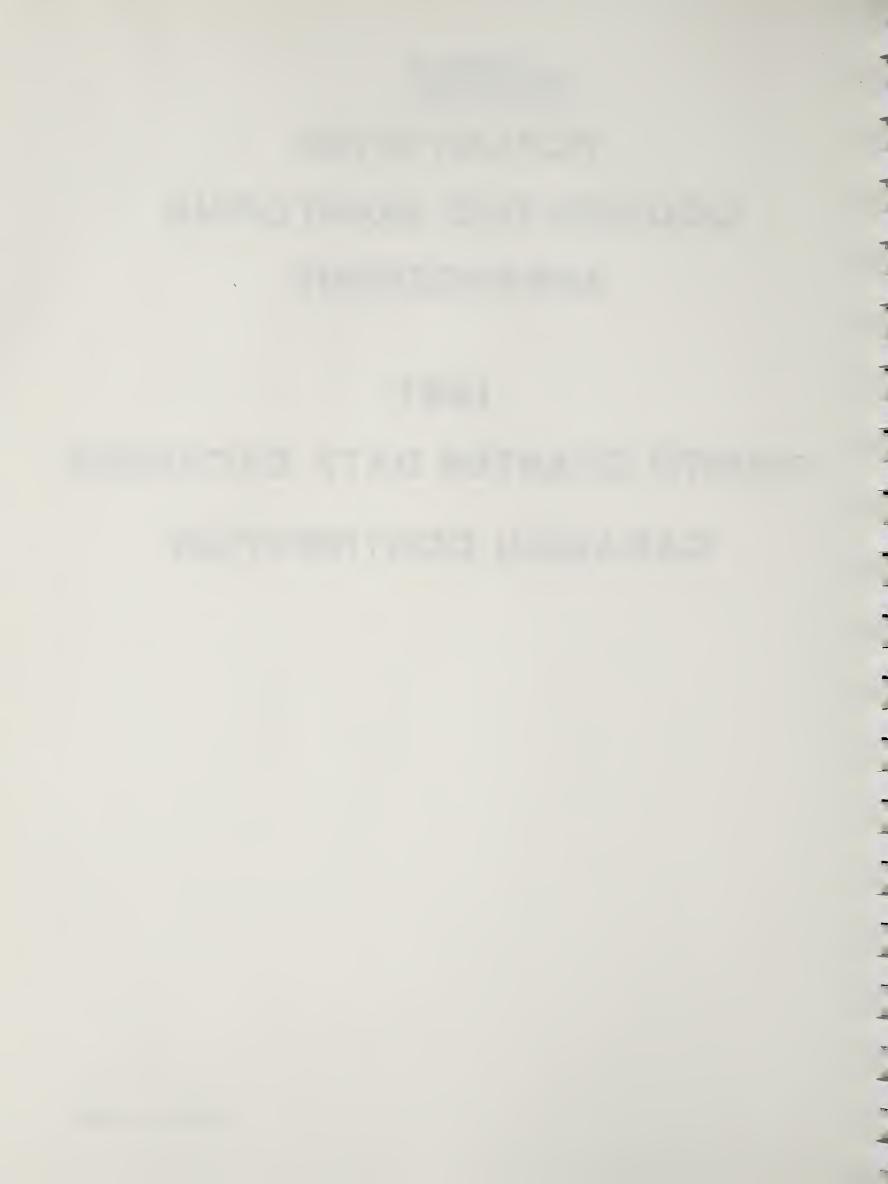


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PREAMBLE

The Technical Monitoring Schedule lists those water quality, water quantity and air quality monitoring locations and parameters which form the basis for information exchange and reporting to governments. The Committee structure is described in the Poplar River Cooperative Monitoring Arrangement.

The monitoring locations and parameters listed herein have been reviewed by the Poplar River Bilateral Monitoring Committee and represent the basic technical information needed to identify any definitive changes in water quality, water quantity and air quality at the international boundary. The Schedule will be submitted to governments for approval as an attachment to the 1981 report to governments. Changes in the sampling locations and parameters may be made by governments based on the recommendations of the Committee.

Significant additional information is being collected by agencies on both sides of the international boundary, primarily for project management or basin-wide baseline data purposes. This additional information is usually available upon request from the collecting agency and forms part of the pool of technical information which may be drawn upon by governments for specific study purposes. Examples of additional information are water quality, water quantity, groundwater and air quality data collected at points in the Poplar River basin not of direct concern to the Committee. In addition, supplemental information on parameters such as vegetation and soils, fish population, waterfowl and aquatic vegetation is also being collected on either a routine or specific studies basis by various agencies.

~

POPLAR RIVER

COOPERATIVE MONITORING ARRANGEMENT

TECHNICAL MONITORING SCHEDULE

CANADA

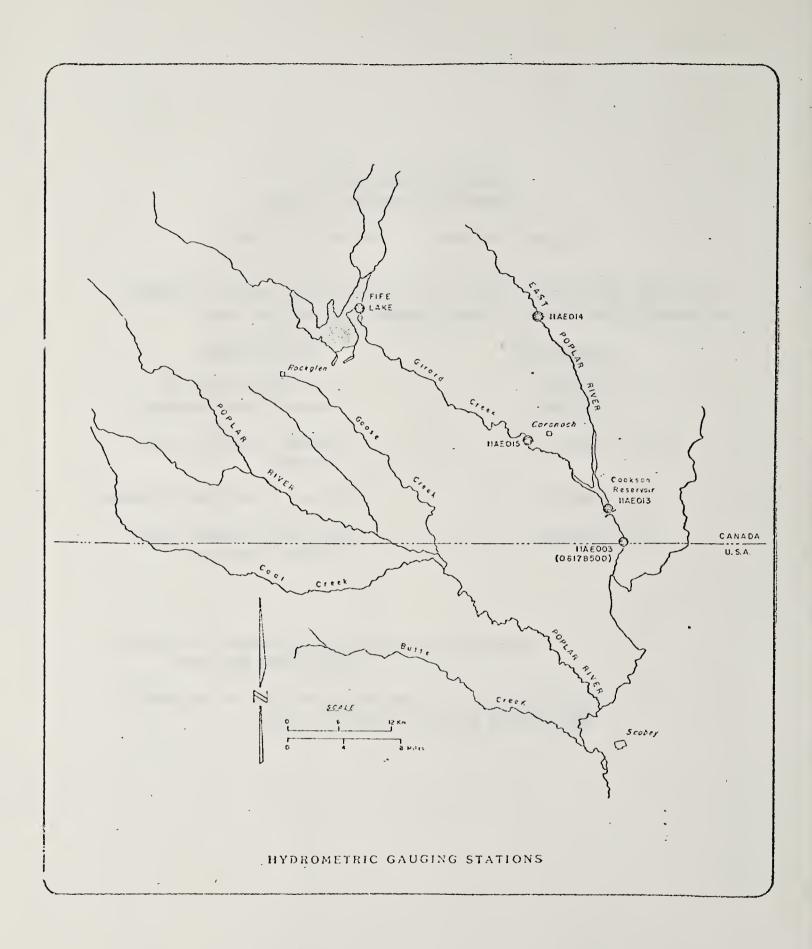
STREAMFLOW MONITORING AT HYDROMETRIC GAUGING STATIONS

Responsible Agency: Environment Canada

Daily mean discharge or levels and instantaneous monthly extremes as normally published in surface water data publications.

	Station No.	Station Name
1.	11AE003 (06178500)	East Poplar River at International Boundary
2.	11AE013	Cookson Reservoir near Coronach
3.	11AE015	Girard Creek near Coronach
4.	11AE014	East Poplar River above Cookson Reservoir

- 5. * Responsible Agency: Saskatchewan Environment Fife Lake Overflow
- Miscellaneous measurements of outflow to be made by SDOE during periods of outflow only.



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TOTAL MUN MUN MUN 23307.254 751.847 751.866 751.817 22553.786 751.793 751.818 751.777 .262 751.783 751.800 751.767 23305 751.890 751.978 751.800 22556.69 23313.526 752.049 752.098 751.987 23316.835 752.156 752.220 752.095 22567.509 752.250 752.292 752.215 752.346 752.444 752.284 23322.72 22574,498 752.483 752.527 752.454 23327.623 752.504 752.529 752.471 21060.542 752.162 752.470 751.961 23312,304 752.010 752.033 751.991 MAAX MIN

YEAR THE FOR SUMMARY

3 MAR NO METRES LEVEL, WATER DAILY MAXIMUM

DATUM N OCT 25 METRES AT Y OF CANADA 1 NO O SURVEY METRES MINIMUM DAILY WATER LEVEL, 751.767 MET MAXIMUM INSTANTANEOUS WATER LEVEL, WATER LEVELS ARE REFERRED TO GEODETIC

GAUGE A-MANUAL

E-ESTIMATED

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5			

WATER 3	SURVEY 1982	OF CANADA PAGE 16			GIRARD CF	CREEK NEAR O	CORONACH				SIATION	NO.	11A£015
NEGIN	4, 5/15/k.			(PF	PRELIMINARY)	DAILY DI	SCHARGE IN	CUBIC METRI	ES PER S	ECOND FOR 198	981		
DAY	JAN	FEB	MAR	APR	MAY	NOU	Jur	AUG	SEP	100	NOV	DEC	DAY
しいたらい			0.242 0.209 0.199 0.184 0.179	0.120 0.129 0.118 0.116	0.093 0.123 0.121 0.123 0.123	0 0 0 123 0 125 0 135	0.183 0.196 0.200 0.177 0.202	0.0000000000000000000000000000000000000	0.097 0.106 0.105 0.108	0.097 0.074 0.070 0.074 0.081	0.105 0.108 A		24301
2 2 2 3 4 5 7			0.175 0.172 0.168 0.167 0.161	0.118 0.115 0.115 0.116	0.128 0.140 0.141 0.130	0.130 0.135 0.152 0.152	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.127 0.092 0.082 0.075 0.075	0.112 0.116 0.116 0.124 0.121	0.082 0.086 0.106 0.123 0.109			6 8 9 10
1122			0.160 0.157 0.159 0.150	0.116 0.117 0.115 0.114	0.122 0.119 0.116 0.118	0.148 0.147 0.184 0.185 0.163	0.224 0.234 0.236 0.268 0.219	0.081 0.086 0.090 0.099	0.132 0.137 0.121 0.105	0.108 0.138 0.149 0.132 0.144			112
16 17 19 20		0.958 A 1.31	0.137 0.131 0.105 0.107	0.114 0.113 0.118 0.121 0.123	0.119 0.115 0.121 0.114 0.104	0.153 0.142 0.126 0.123 0.123	0.181 0.166 0.136 0.103	0.104 0.097 0.099 0.100	0.091 0.103 0.100 0.102 0.102	0.138 0.139 0.145 0.160 0.103			16 18 19 20
22 23 24 25		0.763 0.656 0.550 0.418 0.301	0.186 0.132 0.129 0.122	0.131 0.122 0.118 0.120	000115	0.135 0.128 0.139 0.136	0.091 0.091 0.106 0.103 0.097	0.098 0.076 0.076 0.064	0.106 0.103 0.139 0.094 0.100	0.104 0.104 0.134 0.112			222 223 254 254
22 22 23 33 31 31 31		0.273 0.304 0.231	0.123 0.120 0.119 0.118 0.119	0.120 0.121 0.128 0.087 0.084	0.117 0.114 0.122 0.119 0.119	0.142 0.151 0.158 0.158 0.158	0.093 0.096 0.096 0.097 0.092 0.092	0.101 0.114 0.094 0.092 0.083	0.106 0.101 0.118 0.103	0.115 0.111 0.110 0.110 0.106			. 25 27 29 30 31
TOTAL			4.658	3.495	3.705	4.307	4.996	2.855	3.277	3.479			TOTAL
MEAN DAM3 MAX MIN			0.150 402 0.242 0.105	302 0.131 0.084	320 320 0.141 0.093	372 0.144 0.185 0.120	0.161 432 0.268 0.091	0.092 247 0.127 0.064	0.109 283 0.139 0.086	301 0.160 0.070			MEAN DAM3 MAX M1 N
SUMMARY	FO	R THE MONTHS MAR MEAN DISCHARGE, TOTAL DISCHARGE MAXIMUM DAILY D MINIMUM DAILY D	, 0.126 M3/S E, 2660 DAM: DISCHARGE, 0	s M3 0.268 M3/S 0.064 M3/S	ON JUL 14 ON AUG 24						A-MANUAL GAUGE	L GAUGE	
	MAXIMUM	MUM INSTANTANEOUS		DISCHARGE,	۷	M3/S AT	NO	D TON	ETERMINED				

SIGNIFICANT RUNOFF OCCURRED PRIOR TO FEBRUARY 19

\E≺	/EY OF CANADA	4DA	EAST	EAST POPLAR RIVER A	RIVER	4
32	32 PAGE	7				
XXX						

	DAY	これのロー	6 10 10	- 22 - 25 - 25 - 25 - 25 - 25 - 25 - 25	10 17 19 19 19	22 22 24 25 25	200 M 200 W	TOTAL	MEAN MAX MIN	S.X.	
	EC							٠٠,		CONDITIONS	
	NOV									8 - 1 GE	
D FOR 1981	OCT	00000	00000	00000	00000	00000	00000	0	0000		
PER SECOND	SEP	00000	00000	00000	00000	00000	00000	0	0000		ETERMINED
TRES					**						DET
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z	JUL	00000	00000	00000	00000	00000	00000	0	0000		NO .
DAILY DISCHARGE	JUN	00000	00000	00000	00000	00000	00000	0	0000		. AT
PRELIMINARY) DA	MAY	00000	00000	00000	00000	00000	000000	0	0000	S ON MAR 1 ON MAR 12	M3/S
(PREL	APR	00000	00000	00000	00000	00000	00000	0		018 M3/S ON 0 M3/S ON	IARGE,
	MAR	0.018 B 0.000 0.008 0.006	0.0003	0.0000	00000	00000	000000	0.058	0.002 5.01 0.018	O OCT O M3/S 5.70 DAM3 CHARGE, O.	LEOUS DISCHARGE
	FEB				3.00 B 2.26 B 0.577 B 0.189 B	0.200 B 0.189 B 0.109 B 0.075 B	0.057 B 0.029 B 0.020 B			MEAN DISCHARGE, TOTAL DISCHARGE, MAXIMUM DAILY DIS	YUM INSTANTANEOUS
	JAN									FO	MAXIMUM
	DAY	していまり	9 8 4 0	128 # 50 F	16 19 20 20	22 23 24 24 24	88978 30088 1009	TOTAL	MEAN DAM3 MAX MIN	SUMMARY	

SIGNIFICANT RUNOFF OCCURRED PRIOR TO FEBRUARY 16

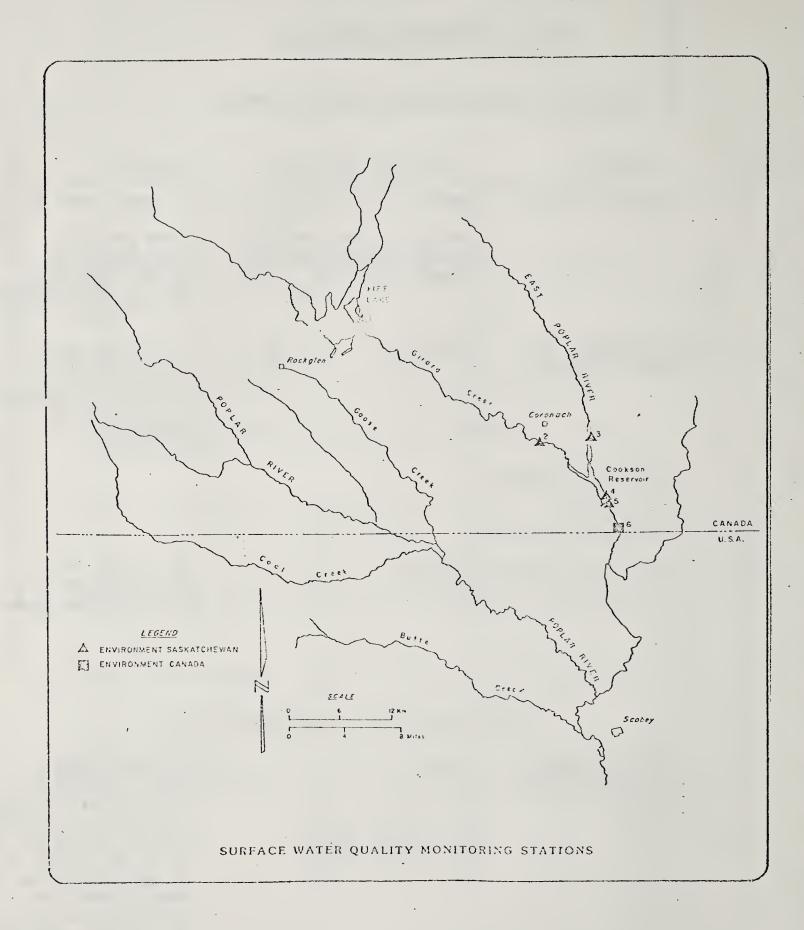
SURFACE WATER QUALITY MONITORING

Responsible Agency: Saskatchewan Environment

No. on Map	Station	Sampling Frequency	Parameters
1.	Fife Lake Overflow	Weekly during overflow	pH, cond, temp, B.
		Once during each period of overflow greater than 2 weeks' duration	Above plus D.O., major ions, TDS (calculated), NO3, TKN, TP, TIC/TOC, TSS, VSS, Tot Col, Fec Col.
2.	Girard Cr. S. of Town of Coronach	Quarterly	D.O., Temp, pH, Cond, major ions, TDS, NO ₃ , B, TKN, TP, TIC/TOC, TSS,VSS, Tot Col, Fec Col, chlorophyll.
3.	Upper end of Cookson Res. @ Hwy 36		
4.	Cookson Res. near dam		
5.	Cookson Res. discharge at concrete pad	Annually(Fall)	Cu, Zn, Pb, Ni, Cd, Cr, Al, Hg, Mo, Se, V, As, Oil and grease, F.

Responsible Agency: Environment Canada

pH, Temp, Cond, D.O., Turbidity, Tot Col, Fec Col, chlorophyll
A, major ions, nutrients, Ba, Cd, Co, Cu, Ni, Pb, Zn, V, Fe, Mn, As, B,
Se, organochlorides, phenoxy herbicides, pyridine herbicides,
Hg, Cyanide phenolics, NFR, Al (dissolved), TDS (calculated), SAR (calculated), Cr, NH ₃ (free-calculated).



Quarterly Sampling

TSS

mg/L

LOCATION	Girard Cr. S. of Town of Coro	nach			
DATE	1980 4th	lst	2nd	1981 3rd	4th
AGENCY	T C11	lst FEB SPC	APR SPC	July SPC	DEC SPC
		2. 0		2.0	,
PARAMETE	RS .				
В	mg/L	1.62	1.55	1.73	1.72
TDS	mg/L	1115	1030	941	939
VSS	mg/L	3.2	8.5	<0.4	3.2
HCO3	mg/L	756	652	526	580
CO3	mg/L			32.5	27
Cl	mg/L	5.9	6.3	5.7	7.2
S0 ₄	mg/L	275	296	267	294
Ca	mg/L	82	50.5	21.6	23.5
Mg	mg/L	46	50.1	49.8	48.6
K	mg/L	7.5	8.5	7.7	8.4
Na	mg/L	225	207	220	239
Conduc	ctivity US/CM	1570	1460	1350	1417
Fe	mg/L	0.27	0.71	0.14	0.26
Mn	mg/L	0.13	0.10	0.02	0.07
total	hardness mg/L	394.1	323.4	258.96	259
	s N mg/L	0.23	0.152	0.003	0.275
TKN	mg/L	0.62	1.04	0.84	1.17
TP	mg/L	0.016	0.068	0.043	0.038
TIC	mg/L	177	128	104	153
TOC	mg/L	5.3	7.8	12.0	8.7
рН	mg/L	7.86	8.18	8.72	8.75
•	rature (°C)	0.0	4.7	20.9	-0.5
D. O.		9.87	6.65	12.9	
	Coliforms orgs/100 ml	18	Ll	17	15
	Coliforms orgs/100 ml	Ll	L1	9	2
	ophyll mg/m ³	L0.001	0.005	0.001	0.011
	ma/l	6.0	30.0	6.0	3.2

3.2

6.0

30.0

6.0

Surface Water Quality

Annual Sampling

LOCATION	Girard Creek	, South o	f Coronacl	h			
DATE AGENCY		1980 DEC SPC	1981 DEC SPC	1982	1983	1984	1985
PARAMETERS							
Cu mg/L		0.014	0.002				
Zn mg/L		0.012	0.004				
Pb mg/!		L0.004	L0.004				
Ni mg/L		0.012*	0.004*				
Cd mg/L		L0.00.1	L0.001				
Cr mg/L		0.02	L0.01	*			
Al mg/L		0.21	0.23				
Hg mg/L		L0.0001	0.0003				
Mo mg/L		L0.05	L0.05				
Se mg/L		L0.0002	L0.0002				
V mg/L		L0.004	L0.004				
As mg/L		0.0039*	0.0013*				
F mg/L		0.36	0.32			•	
0il & Gre	ease mg/L	L0.01	2.3				
* SDOE da	ta - Nov.						

Quarterly Sampling

LOCATION	·Upper end of	Cookson Res. a	it Hwy. #36			
DATE		1980 4th	lst	2nd	1981 3rd	4th
AGENCY		4 (1)	FEB SPC	MAY SPC	AUG. SPC	NOV SPC
PARAMETER	RS		31.0			
В	mg/L		1.23	0.96	1.13	1.20
	mg/L		809	710	700	740
	mg/L		1.6	23.6	8.4	1.6
	mg/L		461	431	451	474
CO3	mg/L		18.5	3.0	9.0	14.5
C1	mg/L		6.9	6.0	6.4	6.5
S0 ₄	mg/L		200	191	175	204
Ca	mg/L		48	33.4	32.6	34.9
			43.2	36.1	33.8	38.1
Mg K	mg/L	•	15.5	15.0	12.0	15.5
	mg/L		159	145	140	156
Na	mg/L		1120	1020	10 7 0	1120
	tivity US/CM		0.06	0.72	0.65	0.15
Fe	mg/L		L0.01	0.04	0.06	0.04
Mn	mg/L		297.7	232.0	220.6	244
	hardness mg/L		0.32	0.073	0.025	0.240
•	N mg/L		1.32	1.3	3.26	1.72
TKN	mg/L		0.055	0.07	0.28	0.07
TP	mg/L		107	. 84	88	92
TIC	mg/L		12.7	12.8	12.6	. 14.2
TOC	mg/L		8.6	8.36	8.48	8.53
рН	mg/L		1.0	10.1	20.1	0.5
	ature (°C)		11.9	5.2	3.8	6.0
D. 0.			11	5.	13	12
	Coliforms orgs/		1.3	Ll	4	Ll
	Coliforms orgs/	100 ml	L]	0.005	0.004	0.002
Chloro	phyll mg/m ³		0.001	28.4	24.8	2.4
TSS	mg/L		1.6	20.4	24.0	

Surface Water Quality

Annual Sampling

LOCATION CO	okson Reservoir	at	Hwy.	#36	
-------------	-----------------	----	------	-----	--

DATE		1980 DEC	1981 DEC	1982	1983	1984	1985
AGENCY		SPC	SPC				
PARAMETERS							
Cu mg/L		0.012	0.004				
Zn mg/L		0.007	0.015				
Pb mg/L		L0.004	0.004				
Ni mg/L		0.012*	0.008*		•		
Cd mg/1		L0.001	L0.001				
Cr mg/L		0.05	L0.01				
Al mg/L		0.32	0.72				
Hg mg/L	***************************************	L0.0001	0.0003				
Mo mg/L		L0.05	L0.05				
Se mg/L		0.0008	0.0004				
V mg/L		0.004	L0.004				
As mg/L		0.007*	0.004*				
F mg/L		0.19	0.24				
Oil & Grease	mg/L	0.6	3.2				

^{*} SDOE data - Nov.

Quarterly Sampling

LOCATION Cookson Reservoir near dam						
DATE		1980 4th	lst	2nd	1981 3rd	4th
AGENCY		NOV SPC	FEB SPC	MAY SPC	AUG. SPC	NOV SPC
PARAMETER	S					
В	mg/L	1.01	1.22	0.99	1.55	1.25
TDS i	mg/L	669	767	710	675	740
VSS 1	mg/L	4.6	1.2	4.4	10.4	1.6
HC03 1	mg/L	373	455	409	346	474
CO3 1	mg/L	9.0	15.0	19.0	37.0	12.5
C1 1	mg/L	5.9	6.5	6.0	6.3	6.8
S0 ₄ 1	mg/L	180	195	191	183	198
Ca r	mg/L	27.5	47.0	32.4	22.3	32.4
Mg i	mg/L	34.7	42.2	36.6	32.1	39.3
K 1	mg/L	15.2	14.5	14.5	11.0	17.2
Na r	mg/L	140	153	143	140	171
Conduct	ivity US/CM	1040	1090	1030	1050	1110
Fe r	mg/L	0.19	0.07	0.41	0.66	0.15
Mn r	mg/L	L0.01	· L0.01	. 0.01	0.05	0.02
total ha	ardness mg/L	211.5	291.1	231.6	. 187.8	243
NO3 as I	N mg/L	0.43	0.36	0.085	0.02	0.24
TKN r	mg/L	1.32	1.16	1.15	2.54	1.55
TP r	mg/L	0.056	0.051	0.048	0.167	0.060
TIC r	mg/L	93.0	106.0	86	90	92
TOC r	mg/L	14.0	12.2	12.9	14.0	14.3
pH r	mg/L	8.68	8.52	8.56	9.09	8.46
temperat	ture (°C)	5.0	0.2	10.6	21.4	0.0
D. O. n	mg/L	10.3	8.06	5.84	5.84	6.24
total Co	oliforms orgs/100 m	1 50	7	6	39	1
	oliforms orgs/100 m	l Ll	Ll	Ll	15	L1
Chloroph	nyll mg/m ³		0.002	0.006	0.068	0.006
	ng/L	14.0	1.6	11.2	43.2	4.0

Surface Water Quality

Annual Sampling

* SDOE data - Nov.

LOCATION	Cookson Reser	voir at l	Dam				
DATE AGENCY PARAMETERS		1980 DEC SPC	1981 DEC SPC	1982	1983	1984	1985
Cu mg/L		0.013	0.005		×		
Zn mg/L		0.009	0.006				
Pb mg/L		L0.004	0.007				
Ni mg/L		0.012*	0.006*				
Cd mg/L		L0.001	L0.00]				
Cr mg/L		0.09	L0.01				
Al mg/L		0.2	0.47				
Hg mg/L		L0.0001	0.0001				
Mo mg/L		0.05	L0.05			·	
Se mg/L		0.0006	0.0003				
V mg/L		0.005	0.004				
As mg/L		0.0076*	0.0039*				
F mg/L		0.18	0.23				
0il & Gr	rease mg/L	L0.01	1.6				

Quarterly Sampling

LOCATION	Cookson Res.	discharge at co	ncrete pad			
DATE		1980] c+	2nd	1981	Anh
AGENCY		4th	lst FEB SPC	2nd MAY	3rd AUG.	4th NOV
			3. 0	SPC	SPC	SPC
PARAMETER	RS					
В	mg/L		1.83	1.07	1.65	1.73
TDS	mg/L		1305-	771	900	1050
VSS	mg/L		2.0	4.0	4.4	2.8
HC03	mg/L		667	454	488	627
CO3	mg/L			7.0	< 0.5	
Cl	mg/L		8.7	6.0	6.6	7.0
S0 ₄	mg/L		478	215	322	356
Ca	mg/L		110	40.8	50.0	93.0
Mg	mg/L		70	39.1	51.0	62.9
K	mg/L		9.4	13.5	9.7	8.6
Na	mg/L		205	150	147	188
Conduc	tivity US/CM		1780	1130	1480 .	1550
Fe	mg/L		1.03	0.43	0.08	0.93
Mn	mg/L		0.15	0.05	0.07	0.24
total	hardness mg/L		562.9	262.9	334.9	491
NO ₃ as	N mg/L		.0.4	0.084	0.40	0.139
TKN	mg/L		1.08	1.15	3.8	1.19
TP	mg/L		0.027	0.037	0.030	0.077
TIC	mg/L		157	93	126	127
TOC	mg/L		7.4	11.3	5.8	7.0
рН	mg/L		7.67	8.45	8.09	7.93
temper	ature (°C)		2.0	10.5	15.3	2.6
D. O.	mg/L		7.65	5.64	4.6	7.0
total	Coliforms orgs,	/100 ml	à ·,	3	30	. L1
Fecal	Coliforms orgs,	/100 ml	2	L1	14	L1
Chloro	phyll mg/m ³		0.003	0.002	0.002	0.001
TSS	mg/L		4.4	10.8	6.8	. 6.0

Surface Water Quality

Annual Sampling

*SDOE data - Nov.

LOCATION - Cookso	n Reservoir, d	lischarge a	t concre	ete pad		
DATE AGENCY PARAMETERS	1980 DEC SPC	1981 DEC SPC	1982	1983	1984	1985
Cu mg/L	0.012	0.002				
Zn mg/L	0.012	L0.001				
Pb mg/!	L0.004	L0.004				
Ni mg/L	0.015*	0.005*				
Cd mg/L	L0.001	L0.001				
Cr mg/L	L0.01	L0.01			•	
Al mg/L	0.06	0.22				
Hg mg/L	L0.0001	L0.0001				
Mo mg/L	L0.05	L0.05				
Se mg/L	L0.0002	0.0005				
V mg/L	L0.004	L0.004				
As mg/L	0.0021*	0.0032*				
F mg/L	0.31	0.29				
Oil & Grease mg,	/L L0.01	1.8				

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038004664

STATION 00SA11AE0008 EAST POPLAR R. AT INTERNATIONAL BOUNDARY

DATE SAMPLED JAN 20, 1981 1220 HOURS CST

SUBMITTER ID 0003

NON CARBONATE HARDNESS *

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	*** SITE RESULTS ***			
1	DISSOLVED OXYGEN	7.0		
	*** FIELD LAB RESULT ***			
	SPEC CONDUCTANCE (US/CM) PH (PH UNITS)		TEMPERATURE (DEG C) TURBIDITY (J T U)	0+0
	*** PHYSICAL DATA ***			
1	TURBIDITY (J T U)			20.3
	COLOUR (REL UNITS) RESIDUE N.F. (105 C)	10.	PH (PH UNITS)	7+0
	*** NUTRIENTS ***			
	PHOSPHORUS (TOTAL AS P)		PHOSPHORUS (TOTAL SOLUBLE)	
	NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F	0.84	NITROGEN (DISS AS N) L CARBON (DISS ORG AS C) F	0.79
		L0.006	CARBON (PART ORG AS C) L	0.36
		V+03	RETROOLIN (DIOS NO NO)	V+0-4
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML)		FECAL COLIFORM (NO./100 ML)	8,
	CHLOROPHYLL A	L0.001		
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	10.001		
	*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM)			0.0
	ALKALINITY (TOTAL AS CACO3)	371.	HARDNESS (TOTAL AS CACO3) *	239.0
7	STAB INDEX-RYZNAR-PH UNITS *			
1	MAGNESIUM (DISS.) POTASSIUM (DISS.)		SODIUM (DISS.) CHLORIDE (DISS.)	212. 6.2
	FLUORIDE (DISS.)	0.3	SULFHATE (DISS.)	300+
	SILICA REACTIVE	15.	HYDROXIDE *	0.0
1	CARBONATE *	0.0	BICARBONATE *	452+2
	TOTAL DISSOLVED SOLIDS * FREE CO2 *	828.5 71.9	SAT INDX-LANGELIER-PH UNITS * FERCENT SODIUM *	1.0 65.0
	1 1 Marilla Sat William (1)	A A	FRATSWARTS C CWA-2 COTT S	C/ C/ V C/

PAGE 1 OF 2

SAR

0.0

5,97

SAMPLE 038004664

STATION 00SA11AE0008 EAST POPLAR R. AT INTERNATIONAL BOUNDARY

DATE SAMPLED JAN 20, 1981 1220 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

*** HEAVY METALS, TRACE ELEMENTS	S, AND TO	XIC MATERIA	LS ***	
ARSENIC (DISS.)	0.0010	BARIUM	(TOTAL)	0.06
BORON (DISS)	1.4	CADMIUM	(TOTAL)	L0.001
COBALT (TOTAL)	L0+002	COFFER	(TOTAL)	LO.001
IRON (DISS.)	0.04	LEAD	(TOTAL)	L0.004
MANGANESE (DISS.)	0.13	MERCURY (UE	S/L) (TOTAL)	L0.02
NICKEL (TOTAL)	0.003	SELENIUM	(DISS.)	L.0005-
VANADIUM (TOTAL)	LO.001	ZINC	(TOTAL)	L0.001
				= 9,
*** SYNTHETIC ORGANIC COMPOUNDS	京水本 (RE	ESULTS IN UG	i/L)	4
2,4,5-T	L0.002	2,4,-D		L0.004
2,4-HB	L0.009	2,4-DF		L0.004=
ALDRIN	L0.001	AROCLOR 124	18	L0.002
AROCLOR 1254	T0.005	AROCLOR 126	0	L0.005
ALPHA-BHC	0.001	ALPHA-CHLOR	CDANE	L0.003
GAMMA-CHLORDANE	L0.002	P,F'-DDD		L0.002
P,P'-DDE	LO.001	F,F'-DDT		L0.004-
OFF'-DUT	L0.001	DIELDRIN		L0.002
ALPHA-ENDOSULFAN	L0.001	BETA -ENDOS	BULFAN	L0.003
ENDRIN	L0.002	HEPTACHL.OR		L0.001_
HEPTACHLOR EPOXIDE	L0.002	LINDANE		L0.001
MCPA	L0+2	METHOXYCHLO)Ř	L0.01 =
FICLORAM		SILVEX		L0.004
MIREX	L.O.001	HCB		L0.001

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038004838

STATION 00SA11AE0008 EAST POPLAR R. AT INTERNATIONAL BOUNDARY

DATE SAMPLED FEB 12, 1981 1400 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE SD - SAMPLE DESTROYED # - UNUSUAL VALUE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE
L - LAB FILTERED F - FIELD FILTERED

*** SITE RESULTS *** DISSOLVED OXYGEN	5.7		
*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1558. 7.4	TEMPERATURE (DEG C) TURBIDITY (J T U)	0.0 NV
*** FHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	5.0 20. 24.	TEMPERATURE (DEG C) PH (PH UNITS)	19+6 7 - 5
*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.013 0.87 0.23 0.013 0.09	CARBON (DISS ORG AS C) F CARBON (PART ORG AS C) L	L0.003 0.78 6. 0.43 0.76
*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	L2. 0.007	FECAL COLIFORM (NO./100 ML)	L2.
*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0.001		
*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	1766. 385.	ALKALINITY (FHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.)	

SAMPLE 038004838

STATION OOSA11AE0008 EAST POPLAR R. AT INTERNATIONAL BOUNDARY

DATE SAMPLED FEB 12, 1981 1400 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

HEAVY METALS, TRACE ELEMENTS, AND TOXIC MATERIALS ***

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ARSENIC	(DISS.)	0.0008	BARIUM	(TOTAL)	0.07
BORON		1.4	CADMIUM	(TOTAL)	L0.001_
COBALT		0.002	COPPER		0+002
	(TOTAL)		IRON	(DISS+)	0.04
LEAD	(TOTAL)	0.011	MANGANESE	(DISS.)	0.21
	S/L) (TOTAL)	L0.02	NICKEL	(TOTAL)	0+005
SELENIUM	(DISS.)	L+0005	MUIDAMAV	(TOTAL)	0.001
ZINC	(TOTAL)	0.008			
					-
*** SYNTHET	TIC ORGANIC COMPOUNDS	*** (RI	ESULTS IN U	G/L)	
2,4,5-T		LO+002	2,4,-D		LO.004
2 + 4-DB		L0.009	2,4-DF		L0.004
ALDRIN		LO.001	AROCLOR 12	48	L0+00%
AROCLOR 125	54	L0+002	AROCLOR 12	60	L0.005=
ALPHA-BHC		0.001	ALPHA-CHLO	RDANE	L0.003
GAMMA-CHLOR	:DANE	L0.002	P*P'-DDD		L0+007
P*P'-DDE		L0.001	P*P'-DDT		L0+00
O,F'-DDT		L0.001	DIELDRIN		L0+002
ALPHA-ENDOS	BULFAN	L0.001	BETA -ENDO	SULFAN	LO+003
ENDRIN		L0.002	HEPTACHLOR		LO+00:
HEPTACHLOR	EPOXIDE	L0.002	LINDANE		LO.001
MCPA			METHOXYCHL	OR	LO+01
PICLORAM			SILVEX		L0.00
MIREX		L0.001	HCB		L0.00:

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038100174

STATION 005A11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED MAR 31, 1981 1250 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	*** SITE RESULTS *** DISSOLVED OXYGEN	11.0		
	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1454.	TEMPERATURE (DEG C) TURBIDITY (J T U)	7.5 4.3
	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	5.9 50. 24.	TEMPERATURE (DEG C) PH (PH UNITS)	20.8 8.1
	*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	8.6	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.008 0.42 NV 0.014 0.12
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROFHYLL A	14.	FECAL COLIFORH (NO./100 ML)	12.
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	ИΛ		
The state of the s	*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	1463. 501.	ALKALINITY (PHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.) CHLORIDE (DISS.) SULPHATE (DISS.) HYDROXIDE * BICARBONATE * SAT INDX-LANGELIER-PH UNITS * PERCENT SODIUM *	0.0 319.9 46.5 212. 6.1 265. 0.0 610.7 2.1 58.3

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SAMPLE 038100174

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED MAR 31, 1981 1250 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

*** MEAVY METALS, TRACE ELEMENTS, AND TOXIC MATERIALS ***

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE
L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	A MAY AND AND AND A	A AA45	Tr. A. Ph. T. 1.133	/ TOTAL \	LA AE
RSENIC			BARIUM		L0.05
BORON	•		CADMIUM		L0.001
COBALT	(TOTAL)	L0.002	COPPER	(TOTAL)	0.001 _
CYANIDE	(TOTAL)	0.013	IRON	(DISS.)	0.08
LEAD		L0.004	MANGANESE	(DISS.)	0.09
			NICKEL		0.003
SELENIUM			MUIDANAV		L0.001
ZINC		0.001	V 111(112) 2 (21)	V I have to be been a	100 T V V II
Z I MC	(IOTHE)	0.007			
ate ate ate and a Control Cont	TA SECTION SOMESTIME	dedate / Mil	דרוו דר דגו וו	C / L \	_
	IC ORGANIC COMPOUNDS			UZLI	1.2 22.4
2,4,5-T			2,4-D		L0.004_
2,4-DB			2,4-DP		L0.004
ALDRIN		L0.001	AROCLOR 12	:42	L0.002_
AROCLOR 125	5.4	L0.002	AROCLOR 12	:60	L0.005
AROCLOR TOT	ral .	L0,002	ALPHA-BHC		L0.001
ALPHA-CHLOF		L0.003	GAMMA-CHLO	RDANE	L0.002
P,P'-DDD	· — · · · · · ·	L0.002	F F F '-DDE		L0.001
P,P'-DDT		L0.004	O,P'-DDT		L0.001_
DIELDRIN		L0.002	ALPHA-ENDO		L0.001
	7111 T A 21	L0.003	ENDRIN	/ Sect Sect Date C . B. H. S.	L0.002
BETA -ENDOS	OULTHR		HEPTACHLOR	EDOVIDE	L0.002
HEPTACHLOR		L0.001		. EIOAINE	
LINDANE		L0.001	MCPA		L0.2
METHOXYCHLO	OR CONTRACTOR OF THE PROPERTY	L0.01	FICLORAM		L0+2
SILVEX		L0.004	MIREX		L0.001

L0.001

HCB

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038100389

STATION 00SA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED APR 21, 1981 1415 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE SD - SAMPLE DESTROYED # - UNUSUAL VALUE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** SITE RESULTS *** DISSOLVED OXYGEN	11.2		
*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1540. 8.1	TEMPERATURE (DEG C) TURBIDITY (J T U)	9.5 3.4
*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	3.8 30. 18.	TEMPERATURE (DEG C) PH (PH UNITS)	19.6 8.2
*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.025 0.46 0.01 NV 1.1 0.35	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.014 0.38 L0.1 0.011 0.08
*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	4.	FECAL COLIFORH (NO./100 ML)	L2.
*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0.001		
*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	1555. 523.	ALKALINITY (PHENOL AS CACO3)	

25

SAMPLE 038100389

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

CST DATE SAMPLED APR 21, 1981 1415 HOURS SUBMITTER ID 0003

RESULT CODES

NV - NO VALUE

IN - INTERFERENCE

* - CALCULATED VALUE

IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED

◆ - UNUSUAL VALUE

- LAB FILTERED

F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** HEAVY MET	ALS, TRACE ELEMENT	S, AND T	OXIC MATERI	[ALS ***	
ARSENIC (D)	ISS.)	0.0016	BARIUM	(TOTAL)	0.16
BORON (D)	ISS)	1.3	CADMIUM	(TOTAL)	L0.001
COBALT (TO	OTAL)	0.004	COPPER	(TOTAL)	0,006
CYANIDE (T	OTAL)	0.007	IRON	(DISS.)	0.11
LEAD (TO	DTAL)	L0.004	MANGANESE	(DISS.)	0.06
MERCURY (UG/L) (TOTAL)	L0.02	NICKEL	(TOTAL)	ИV
SELENIUM (D)	ISS.)	L.0005	MUIGAKAV	(TOTAL)	L0.001
ZINC (T	OTAL) .	ИV			

(RESULTS IN UG/L) *** SYNTHETIC ORGANIC COMPOUNDS *** 2:4-D L0.002 2,4,5-T LO.009 2,4-DF 2,4-DB ALDRIN L0.001 AROCLOR 1242 L0.002 AROCLOR 1260 AROCLOR 1254 L0.002 ALPHA-BHC AROCLOR TOTAL GAMMA-CHLORDANE ALPHA-CHLORDANE L0.003 PyP'-DDE L0.002 FyP'-DDD PyP'-DDT L0.004 O,P'-DDT L0.002 ALPHA-ENDOSULFAN DIELDRIN L0.003 ENDRIN BETA -ENDOSULFAN L0.001 HEPTACHLOR EPOXIDE HEPTACHLOR L0.001 MCPA LINDANE FICLORAM L0+01 METHOXYCHLOR L0.004 MIREX SILVEX L0.001 HCB

L0.004 L0.004

L0.002 --L0.005 0.004 L0+002_ L0.001 L0.001-LO.001

L0.002-F0.005 L0.2

L0.2

L0.001

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038100740

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED MAY 20, 1981 1200 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO V

NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

	*** SITE RESULTS *** DISSOLVED OXYGEN	9.5		
	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) FH (PH UNITS)	1200.	TEMPERATURE (DEG C) TURBIDITY (J T U)	16.0 3.4
	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)		TEMPERATURE (DEG C) PH (PH UNITS)	21.2 8.4
	*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.03	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.71
The same of the sa	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	8.	FECAL COLIFORM (NO./100 ML)	8.
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0.001		
	*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	1184. 429.	ALKALINITY (PHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.)	
-		FAGE 1	OF 2	27.

SAMPLE 038100740

STATION OOSA11AEOOO8 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED MAY 20, 1981 1200 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

0.05

0.05 0.06 NV

L0.001

0.03

LO.004

L0.002_

0.004 -

L0.001-

L0.002=

L0.005

L0.002

L0.001

L0.001

L0.002

L0.001

L0.2

L0.2

L0.001 0.003

SD - SAMPLE DESTROYED # - UNUSUAL VALUE

LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** HEAUY	METALS, TRACE	ELEMENTS, AND 7	TOXIC MATER	ALS ***
ARSENIC	(DISS.)	0.0021	BARIUM	(TOTAL)
BORON	(DISS)	0.95	CADMIUM	(TOTAL)
COBALT	(TOTAL)	0.002	COPPER	(TOTAL)
CYANIDE	(TOTAL)	0.006	IRON	(DISS.)
LEAD	(TOTAL)	L0.004	MANGANESE	(DISS.)
MERCURY (UG/L) (TOTAL)	L0.02	NICKEL	(TOTAL)
SELENIUM	(DISS.)	L+0005	VANADIUM	(TOTAL)
ZINC	(TOTAL)	VИ		

*** SYNTHETIC ORGANIC COMPOUNDS *** (RESULTS IN UG/L)

2,4-1 L0.002 2,4,5-T L0.009 2,4-DF 2,4-DB AROCLOR 1242 L0.001 ALDRIN L0.002 AROCLOR 1260 AROCLOR 1254 ALPHA-BHC AROCLOR TOTAL L0.002 GAMMA-CHLORDANE L0.003 ALPHA-CHLORDANE P,F'-DDE L0.002 Pap'-DDD O,P'-DDT P*F'-DDT L0.004 ALPHA-ENDOSULFAN L0.002 DIELDRIN L0.003 ENDRIN BETA - ENDOSULFAN L0.001 HEPTACHLOR EPOXIDE HEPTACHLOR 0.001 MOPA LINDANE L0.01 PICLORAM METHOXYCHLOR L0.004 MIREX SILVEX L0.001 HCB

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WATER QUALITY BRANCH UESTERN REGION ENVIRONMENT CANADA_-

SAMPLE 038101031

STATION 0084114E0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED JUN 10, 1981 1140 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

. *** SITE RESULTS *** DISSOLVED OXYGEN	10.3		
*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1198, 8.0	TEMPERATURE (DEG C) TURBIBITY (J T U)	15. 2.6
*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	3. 30. 3.	TEMPERATURE (DEG C) PH (PH UNITS)	18,4 8.3
*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.027 0.91 0.02 11. 0.54 0.82	PHOSPHORUS (TOTAL SOLUBLE) MITROSEM (DISS AS N) L HITROGEM (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) MITROGEM (PART AS N) L	0.013 0.82 L0.1 0.014 0.09
*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	L2. 0.005	FECAL COLIFORM (NO./100 ML)	12,
*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	0.003		
*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	FARAMET 1210. 428. 3.7 42.5 14. 0.20 3.5 0.0 738.6 4.1	ERS *** ALKALINITY (PHENGL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) CHLORIDE (DISS.) SULPHATE (DISS.) HYDROXIDE * BICARPONATE * SAT INDX-LANGELIER-PH UNITS * PERCENT SODIUM *	0.0 302.5 51.1 160. 6.4 204. 0.0 521.7 2.3

PAGE 1 OF 2

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED JUN 10, 1981 1140 HOURS CST SUPMITTER ID 0003

REBULT CODES NV - NO VALUE IN - INTERFERENCE

*** HEAVY METALS; TRACE ELEMENTS; AND TOXIC MATERIALS ***

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

∌ - UNUSUAL VALUE SD - SAMPLE DESTROYED F - FIELD FILTERED L - LAS FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

49 49 49 4 1 E. #1 3	a disper l'illeral è dispersant au les au de la company de	owaya wa militar a	with a second title table at the	The first that the state of the	
ARSENIO	(DISS.)	0.0024	BARIUM	(TOTAL)	0.16 =
BORON	(DISS)	0.799	CADMIUM	(TOTAL)	0.002
programme and the following	(TOTAL)	0,004	COPPER	(TOTAL)	0,002
CYANIDE	(TOTAL)	0.009	IRON	(DISS.)	0.11
LEAD	(TOTAL)	0.010	MANGANESE	(DISS.)	0.05
	(UG/L) (TOTAL)	10.02	NICKEL	(TOTAL)	NV -
GELENIUM		L,0005	VANADIUM	(TOTAL)	L0.001
ZINC	(TOTAL)	0.001			
7 ,t. 1 % tar	V 1 W 1 13 to 2	0 4 0 0 .1			
XXX SYNT	HETIC ORGANIC COMPOU	INDS *** (R	ESULTS IN UG	9/1)	
2,4:5-T		L0.002	2 , 4 - D		0.06 =
2,4-DB		L0,009	2:4-DP		L0,004
ALDRIN		L0.001	AROCLOR 124	19	L0,002
AROCLOR	1054	L0.002	AROCLOR 126		L0,005_
ARCCLOR		L0,002	ALPHA-BHC		0.008
ALPHA-CH		F0.003	GAMMA-CHLOR	EDANE	L0.002-
PyP/-DDI		L0.002	P,P/-DDE		L0.001
P, P'-DD1		L0.004	0,P/-DDT		L0.001=
DIELDRIA		L0.002	ALPHA-ENDOS	BULFAN	L0.001
	ADOSULFAN	L0.003	EMPRIM		L0,002
HEPTACHL		L0.001	HEPTACHLOR	EPNYTHE	L0.002-
	_ U i\	0.002	MCPA	han, i had it's the deal has	L0.2
LINDAME		V + V V Z	HULTH		للله لا أما سا

FICLORAM

L0.2

L0.001_

L0.01

L0.001

L0.004 MIREX

30

STLUEX

HCE

METHOXYCHLOR

WATER QUALITY BRANCH WESTERN REGION . ENVIRONMENT CANADA

SAMPLE 039101552

NON CARBONATE HARDNESS *

STATION OOSA11AEO008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED JUL 13, 1981 1300 HOURS CST SUBMITTER ID 0003

RESULT CODES NO - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** SITE RESULTS *** DISSOLVED OXYGEN	0.3		
*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1540. 8.4	TEMPERATURE (DEG C) TURBIDITY (J T U)	25.0 2.2
*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	2.5 20. 4.	TEMPERATURE (DEG C) PH (PH UNITS)	19+2 9+3
*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.037 0.52 L0.01 7.6 0.59	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L MITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.025 0.41 LO.1 0.012 0.11
*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	NU 0.007	FECAL COLIFORM (NO./100 ML)	4.
*** ORGANIC DATA *** PHENOLIC MATERIAL (UC/L)	0.001		
*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 *	PARAMET: 1457. 515. 3.7 55. 8.9 0.28 7.9 0.0 958.4 4.9	ERS *** ALKALINITY (PHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.) CHLORIDE (DISS.) SULPHATE (DISS.) HYDROXIDE * PICARBONATE * SAT INDX-LANGELIER-PH UNITS * PERCENT SODIUM *	0.0 318.8 37.0 249. 6.3 285. 0.0 627.8 2.3 62.1
	### FIELD LAB RESULT *## SPEC CONDUCTANCE (US/CM) PH (PH UNITS) *** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C) *** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (DISS ORG AS C) L NITROGEN (DISS AS N) F *** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A *** ORGANIC DATA *** PHENOLIC MATERIAL (US/L) *** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS *	### FIELD LAB RESULT *## SPEC CONDUCTANCE (US/CM) 1540. PH (PH UNITS) 8.4 *** PHYSICAL DATA *** TURBIDITY (J T U) 2.5 COLOUR (REL UNITS) 20. RESIDUE N.F. (105 C) 4. *** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) 0.037 NITROGEN (DISS NO3+NO2 AS N) F LO.01 CARBON (PART ORG AS C) L 7.4 CARBON (PART ORG AS C) L 0.59 NITROGEN (DISS AS N) F 0.42 *** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) NV CHLOROPHYLL A 0.007 *** ORGANIC DATA *** PHENOLIC MATERIAL (US/L) 0.001 *** BALANCE DATA AND CALCULATED PARAMET: SPEC CONDUCTANCE (US/CM) 1457. ALKALINITY (TOTAL AS CACO3) 515. STAB INDEX-RYZNAR-PH UNITS * 3.7 MAGNESIUM (DISS.) POTASSIUM (DISS.) P	### FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS) ### PHYSICAL DATA *** TURBIDITY (J T U) ### PHYSICAL DATA *** TURBIDITY (J T U) ### HUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROSEN (TOTAL AS P) NITROSEN (TOTAL AS P) CARBON (BISS NO3+NO2 AS N) F LO.01 MITROSEN (FARTICULATE) ANTITOGEN (DISS AS N) F CARBON (PART ORB AS C) L ### BIOLOGICAL DATA TOTAL COLLIFORM (NO./100 ML) CHLOROPHYLL A ### BOLOGICAL DATA TOTAL COLLIFORM (NO./100 ML) CHLOROPHYLL A ### BOLOGICAL DATA TOTAL COLLIFORM (NO./100 ML) CHLOROPHYLL A ### BALANCE DATA AND CALCULATED ### CARGONIC (TOTAL AS CACCG3) \$15. HARPHOESE (TOTAL AS CACCG3) \$15. HARPHOESE (TOTAL AS CACCG3) \$15. HARPHOESE (TOTAL AS CACCG3) *** *** BALANCE DATA AND CALCULATED ### CALCUMA (DISS.) PHOSPHORUS (FARTICULATE) ### ORGANIC (DISS.) *** *** PHOSPHORUS (TOTAL AS CACCG3) *** *** BALANCE DATA AND CALCULATED ### ORGANIC (DISS.) *** *** PHOSPHORUS (TOTAL AS CACCG3) *** *** BALANCE DATA AND CALCULATED ### ORGANIC (DISS.) *** *** PHOSPHORUS (TOTAL AS CACCG3) *** **** *** BALANCE DATA AND CALCULATED ### ORGANIC (DISS.) *** *** ORGANIC (DISS.) *** *** ORGANIC (DISS.) *** *** ORGANIC (DISS.) *** *** *** *** *** *** ***

0.0

PAGE 1 OF 2

6.07

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SAR.

STATION DOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED JUL 13, 1981 1300 HOURS CST SUBMITTER ID 0003

RESULT CODES

NV - NO VALUE

IN - INTERFERENCE

* - CALCULATED VALUE

IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED L - LAB FILTERED

4 - UNUSUAL VALUE
F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE MOTED

BORON (DISS) COBALT (TOTAL) CYANIDE (TOTAL)	0.0042 BARIUM (TOTAL) 2.1 CADMIUM (TOTAL) L0.002 COPPER (TOTAL) 0.013 IRON (DISS.) L0.004 MANGANESE (DISS.)	0.10 L0.001 L0.001 0.18 0.07 L0.002 L0.001
*** SYNTHETIC ORGANIC COMPOUNDS 2,4,5-T 2,4-DB ALDRIN AROCLOR 1254 AROCLOR TOTAL ALPHA-CHLORDANE P,P'-DDD P,P'-DDT DIELDRIN BETA -ENDOSULFAN HEPTACHLOR LINDANE METHOXYCHLOR SILVEX HCB	*** (RESULTS IN UG/L) L0.002 2;4-D L0.009 2;4-DP L0.001 AROCLOR 1242 L0.002 AROCLOR 1250 L0.003 GAMMA-CHLORDANE L0.003 GAMMA-CHLORDANE L0.004 0;P'-DDE L0.004 ALPHA-ENDOSULFAN L0.003 ENDRIN L0.003 ENDRIN L0.001 HEPTACHLOR EPOXIDE L0.001 MCPA L0.004 MIREX L0.001	L0.004 L0.004 L0.002 L0.003 0.01 L0.001 L0.001 L0.002 L0.002 L0.002 L0.2 L0.2

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

9AMPLE 038102299

STATION COSA11AECCOS EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED AUG 10; 1981 1000 HOURS CET SUPAITTER ID 0003

RESULT CODES NO - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED : - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	*** SITE RESULTS *** DISSOLVED OXYGEN	4.9		
-	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1462. 8.2	TEMPERATURE (DEG C) TURBIDITY (J T U)	20.5 3.2
The state of the s	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	3.8 20. 6.	TEMPERATURE (BEG C)	23.9 8.2
	*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NOS+NOS AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.039 0.49 L0.01 7.6 0.80 0.38	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.027 0.36 L0.1 0.012 0.13
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	L2.	FECAL COLIFORM (MO./100 ML)	L2.
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	0.002		
	*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALMALINITY (TOTAL AS CACOZ) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUCRIDE (DISS.) SILICA REACTIVE CARPONATE * TOTAL DISSOLVED SOLIDS * FREE COZ *	1530. 499. 3.8 57. 8.6 0.25 12.	ERS *** ALKALINITY (PHEMOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.) CHLORIDE (DISS.) SULPHATE (DISS.) HYDROXIDE * BICARBONATE * SAT INDX-LANGELIER-PH UNITS * PERCENT SODIUM *	0.0 289.6 22.0 212. 4.3 29.0 607.1 2.2 60.4
	NON CARBONATE HARDNESS *	PAGE 1 (OF 2	5,42
-				33

STATION 008A11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED AUG 10, 1991 1000 HOURS CST BUBMITTER ID 0002

REBULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DISTROYED & - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

__ values in MG/L EXCEPT OTHERWISE NOTED

*** HEAVY METALS, TRACE ELEMENT VARSENIC (DISS,) VBORON (DISS) VCOBALT (TOTAL) VCYANIDE (TOTAL) VEAD (TOTAL) VMERCURY (UG/L) (TOTAL) VBELENIUM (DISS.)	S, AND TOXIC MATERIALS *** 0.0043 /BARIUM (TOTAL) 2.0 /CADMIUM (TOTAL) L0.002 /COPPER (TOTAL) 0.008 /ZRON (DISS.) L0.004 /MANGANESE (DISS.) L0.02 /AICKEL (TOTAL) L.0005 /CANADIUM (TOTAL)	0.07 L0.001- 0.001 L0.04 - 0.03 0.003
ZINC (TOTAL)	0.002	
*** SYNTHETIC ORGANIC COMPOUNDS 2;4;5-T 2;4-DB ALDRIN AROCLOR 1254 AROCLOR TOTAL ALPHA-CHLORDANE P;P'-DDD P;P'-DDT DIELDRIN BETA -ENDOSULFAN HEPTACHLOR LINDANE METHOXYCHLOR SILVEX HOB	*** (RESULTS IN UG/L) L0.002 2;4-D L0.007 2;4-DP L0.001 AROCLOR 1242 L0.002 ALPHA-BHC L0.003 GAMMA-CHLORDANE L0.003 GAMMA-CHLORDANE L0.004 D;P'-DBT L0.004 ALPHA-ENDOSULFAN L0.003 ENDRIN L0.003 ENDRIN L0.001 HEPTACHLOR EPOXIDE L0.004 MIREX L0.004 MIREX L0.001	L0.004 L0.004 L0.002 L0.005 0.001 L0.002 L0.001 L0.002 L0.003 L0.2 L0.2

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038103485

STATION 00SA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED OCT 05, 1981 1240 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE SD - SAMPLE DESTROYED # - UNUSUAL VALUE F - FIELD FILTERED L - LAB FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** SITE RESULTS *** DISSOLVED OXYGEN	9,9		
*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)		TEMPERATURE (DEG C) TURBIDITY (J T U)	8+0 ₩V
			21.2 8.2
NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L	0.024 0.29 0.01 5.9 0.29	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	I.S. 0.25 L0.1 NV 0.04
*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	L2. 0.005	FECAL COLIFORM (NO./100 ML)	L2.
*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0.001		
	1415. 512.	ALKALINITY (PHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SODIUM (DISS.) CHLORIDE (DISS.)	

PAGE 1 OF 2

STATION COSALIAECCOS EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED OCT 05, 1981 1240 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

0.08 L0.001 L0.001 0.04 0.02 L0.002

L0.004 L0.004 L0.002 L0.005

0.009 L L0.002 L0.001 L0.001 L0.002 L0.002 L0.002 L0.2 L0.2

SD - SAMPLE DESTROYED # - UNUSUAL VALUE
L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

水本本 HEAU	/ METALS, TRACE	ELEMENTS, AND	FOXIC MATER	IALS ***
ARSENIC	(DISS.)	0.0015	BARIUM	(TOTAL)
BORON	(DISS)		CADMIUM	(TOTAL)
CCBALT	(TOTAL)	L0,002	COPPER	(TOTAL)
CYANIDE	(TOTAL)	L0.001	IRON	(DISS.)
LEAD	(TOTAL)	L0.004	MANGANESE	(DISS.)
MERCURY	(UG/L) (TOTAL)	L0.02	NICKEL	(TOTAL)
SELENIUM	(PISS.)	L.0005	MUIDAMAV	(TOTAL)
ZINC	(TOTAL)	1.0.001		

*** INTHETIC ORGANIC COMPOUNDS *** (RESULTS IN UG/L)

2.74,5-T	L0.002	2 s 4 - D
2 7 4-DB	L0+009	2 - 4-DF
ALDRIN	L0.001	AROGLOR 1242
AROCLOR 1254	L0.002	AROCLOR 1260
AROCLOR TOTAL	L0.002	ALPHA-BHC
ALPHA-CHLORDANE	L0.003	GAMMA-CHLORDANE
F,P'-DDD	L0.002	P,P'-DDE
P,P'-DDT	L0.004	O » P ' - D D T
DIELDRIN	1.0.002	ALPHA-ENDOSULFAN
BETA -ENDOSULFAN	L0:003	ENDRIN
HEPTACHLOR	L0.001	HEPTACHLOR EPOXIDE
LINDANE	L0.001	MCPA
METHOXYCHLOR .	L0.01	PICLORAM
SILVEX	L0.004	MIREX
HCB	L0.001	

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038103764

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED OCT 28, 1981 1145 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	*** SITE RESULTS *** DISSOLVED OXYGEN	14.3		
	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1394. 8.0	TEMPERATURE (DEG C) TURBIDITY (J T U)	2.0 NV
	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	4.0 20. 4.	TEMPERATURE (DEG C) PH (PH UNITS)	17.3 7.9
	NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L		NITROGEN (DISS AS N) L NITROGEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE)	0.006 0.60 L0.1 0.12 0.04
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	NV 0.004	FECAL COLIFORM (NO./100 ML)	L2.
-	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	0.001		
	*** BALANCE DATA AND CALCULATED SPEC CONDUCTANCE (US/CM) ALKALINITY (TOTAL AS CACO3) STAB INDEX-RYZNAR-PH UNITS * MAGNESIUM (DISS.) POTASSIUM (DISS.) FLUORIDE (DISS.) SILICA REACTIVE CARBONATE * TOTAL DISSOLVED SOLIDS * FREE CO2 * NON CARBONATE HARDNESS *	1431. 504. 0.0 49.0 7.5 0.28 11. 0.0		0.0 201.7 N.V. 200. 6.0 288. 0.0 616.8 0.0 57.3

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED OCT 28, 1981 1145 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE

IN - INTERFERENCE

IS - INSUFFICIENT SAMPLE * - CALCULATED VALUE

- UNUSUAL VALUE SD - SAMPLE DESTROYED F - FIELD FILTERED L - LAB FILTERED

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

	•				
*** HEAVY	METALS, TRACE ELEM	ENTS, AND T	OXIC MATER:	IALS ***	_
ARSENIC	(DISS.)	0.0012	BARIUM	(TOTAL)	0.06
BORON	(DISS)	1.8	CADMIUM	(TOTAL)	L0.001
COBALT	(TOTAL)	L0.002	COPPER	(TOTAL)	0.002 _
CYANIDE	(TOTAL)	0.002	IRON	(DISS.)	0.06
LEAD	(TOTAL)	L0.004	MANGANESE	(DISS.)	0.07
MERCURY (UG/L) (TOTAL)	0.08	NICKEL	(TOTAL)	L0.002
SELENIUM	(DISS.)	L.0005	VANADIUM	(TOTAL)	L0.001
ZINC	(TOTAL)	L0.001			
水水水 SYNTH	ETIC ORGANIC COMPOUN	R) ままま SQN	ESULTS IN U	UG/L)	-
2,4,5-T		L0.002	2:4-1		L0.004
2 , 4-DB		F0:005	2:4-19		L0.004
ALTIRIN		L0.001	AROCLOR 13	242	L0.002

ZINC	(TOTAL)	L0.001	VIIIVII DE CILIP	
*** SYNTHET	IC ORGANIC COMPOUNDS	**** (E)	ESULTS IN UG/L)	
2:4:5-T		L0.002	2,4-1	L0.004
2,4-DB		L0.009	2;4-DF	L0.004
ALDRIN		L0.001	AROCLOR 1242	L0.002_
AROCLOR 125	5.4	L0.002	AROCLOR 1260	L0.005
AROCLOR TOT	AL	L0.002	ALPHA-BHC	0.003 -
ALPHA-CHLOR	CDANE	F00.07	GAMMA-CHLORDANE	L0,002
P,P'-DDD		L0.002	P,P/-DDE	L0.001
P,F/-DDT		L0.004	O,F'/-DDT	L0,001_
DIELDRIN		L0.002	ALPHA-ENDOSULFAN	L0.001
BETA -ENDOS	ULFAN	L0.003	ENDRIN	L0.002-
HEPTACHLOR		L0.001	HEPTACHLOR EPOXIDE	L0.002
LINDANE		L0.001	MCPA	L0.2
METHOXYCHLO)R	L0.01	PICLORAM	L0.2
SILVEX		L0.004	MIREX	L0.001
HCB		L0.001		-

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WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT CANADA

SAMPLE 038104051

STATION COSA11AECCOS EAST FOPLAR RIVER AT INTERNATIONAL BOUNDARY:

DATE SAMPLED NOV 16, 1981 1230 HOURS MST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

BD - SAMPLE DESTROYED

♣ - UNUSUAL VALUE

L - LAP FILTERED
F - FIELD FILTERED

ALL VALUES IN MO/L EXCEPT OTHERWISE MOTED

Springer 1	*** SITE RESULTS *** DISSOLVED OXYGEN	12.9		
	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UNITS)	1510. 8.2	TEMPERATURE (DEG C) TURBIDITY (J T U)	2;0 7;0
	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	3.2 30. 14.	TEMPERATURE (BEC C) PH (PH UNITS)	23.6 8.0
	*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.013 0.51 0.13 6.3 0.40 0.48	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROSEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROGEN (PART AS N) L	0.003 0.46 L0.1 0.010 0.05
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	NV 0.006	FECAL COLIFORM (NO./100 ML)	₩Ų
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0.001		
	CARBONATE *	1414. 532. 4.0 51.0 7.9 0.17 10.	ERS *** ALKALINITY (PHENOL AS CACO3) HARDNESS (TOTAL AS CACO3) * CALCIUM (DISS.) SUDDIUM (DISS.) CHLORIDE (DISS.) SULPHATE (DISS.) HYDROXIDE * BICARBONATE * SAT INDX-LANGELIER-PH UNITS * PERCENT SODIUM *	0.0 324.1 45.7 200. 5.9 274. 0.0 448.5 2.0

STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED NOV 16, 1981 1230 HOURS MST

SUPMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED # - UNUSUAL VALUE
L - LAB FILTERED F - FIELD FILTERED

ALL VALUES IN LOZE EXCEPT OTHERWISE NOTED

*** PEALS METALS	S, TRACE ELEMENTS,	AND TOXIC	MATERIALS X	装束字	-
ARSFRIC (DISS	B.) 0.	.0013 BARI	um (Ton	(AL)	.05
T. NON (DISS	9) 2,	O CADH	fium (Ton	TAL) L(0.001
COBALT (TOTA	AL) LO	0.002 COPP	ER (TO)	FAL) 0.	.002
CYANIDE (TOTA	AL) 0.	.002 IRON	e (DISS	5.)	.04
LEAD (TOTA	AL) LO	0.004 MAMS	BAMESE (DIS	88.)	.08 .
MERCURY (UG/L)	(TOTAL) 0,	.02 NICH	CEL (TO)	TAL) Lo	0.002
SELENIUM (DISS	S.) L.	.0005 VANA	nor) Mulde	FAL) L(0.001-
ZINC (TOTA	AL) 0.	.014			
					100

L0.004

L0.002 L0.005

0.003 = L0.002 L0.001 L0.001 L0.002 L0.002 L0.002 L0.2 = L0.2

*** SYNTHETIC ORGANIC COMPOUNDS *** (RESULTS IN UG/L)

2:1:5-1	L0.002	2 , 4-D
2 7 4 - DE	£0.009	2:4-DP
ALDRIN	L0.001	AROCLOR 1242
AROCLOR 1254	L0.002	AROCLER 1260
AROCLOR TOTAL	L0.002	ALPHA-BHC
ALPHA-CHLORDANE	L0.003	SAMMA-CHLORDANE
PrF/-DDD	L0.002	PyP'-DDE
FAFY-DOT	L0.004	0,8/-PDT
DIELDRIN	L0.002	ALPHA-ENDOSULFAN
BETA -ENDOSULFAN	L0.003	EMDRIN
HEPTACHLOR	L0.001	HEPTACHLOR EPOXIDE
LINDANE	L0.001	MCPA
METHOXYCHLOR	L0.0i	PICLORAM
SILVEX	L0.004	MISEM
HCB	L0.001	

WATER QUALITY BRANCH WESTERN REGION ENVIRONMENT SANADA

SAMPLE 038104200

STATION 008A11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED DEC 02, 1991 1220 HOURS OST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

* - CALCULATED VALUE IS - INSUFFICIENT SAMPLE

SD - SAMPLE DESTROYED - UNUSUAL VALUE L - LAB FILTERED F - FIELD FILTERED

ALL UALUES THE MOVE EVERDY OTHERWISE HOTER

	ALL VALUES IN MG/L EXCEPT OTHER!	WISE MOTE	E D	
1	*** SITE RESULTS *** DISSOLVED OXYGEN	8.7		
	*** FIELD LAB RESULT *** SPEC CONDUCTANCE (US/CM) PH (PH UMITS)	1620: 7:7	TEMPERATURE (DEG C) . TUFBILITY (J T U)	0.0 NV
	*** PHYSICAL DATA *** TURBIDITY (J T U) COLOUR (REL UNITS) RESIDUE N.F. (105 C)	3.7 30.0 2.	TEMPERATURE (PEG C) PH	21.3 7.6
	*** NUTRIENTS *** PHOSPHORUS (TOTAL AS P) NITROGEN (TOTAL AS N) * NITROGEN (DISS NO3+NO2 AS N) F CARBON (DISS ORG AS C) L CARBON (PART ORG AS C) L NITROGEN (DISS AS N) F	0.019 0.94 0.17 6.8 0.31	PHOSPHORUS (TOTAL SOLUBLE) NITROGEN (DISS AS N) L NITROSEN (TOT AMMONIA AS N) PHOSPHORUS (PARTICULATE) NITROSEN (PART AS N) L	L0,003 0.90 L0.1 0.019 0.04
	*** BIOLOGICAL DATA TOTAL COLIFORM (NO./100 ML) CHLOROPHYLL A	2. 0.005	FECAL COLIFORM (NO./100 ML)	L2.
	*** ORGANIC DATA *** PHENOLIC MATERIAL (UG/L)	L0:001		
1	WWW DALAMOR DATA AND CALCIDATED	DADABETS		

**** BALANCE DATA AND CALCULATED PARABETERS ***

	HOM CARBONATE HARDNESS *	0.0			A
			PERCENT SOBIL	1片 李	50.7
	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1067.0		BELIER-PH UNITS *	2.4
	CARBONATE #		PICAREOMATE :		729.0
	SILICA REACTIVE	16.	HADEOXIDE %		0.0
a constitution of	FLUORIDE (DISS.)	0.28	SULPHATE	(DISE.)	315.
	POTASSIUM (DISS.)		PELCETEE		6.4
ı	MAGNESIUM (DISS.)	在 特。	BODIUM	(DISS.)	220,
The second	STAB INDEX-RYZNAR-PH UNITS *	2.4	CALCIUM	(DISE.)	76.5
	ALKALINITY (TOTAL AS CACO3)	599:	HARDNESS (TOT	FAL AS CACO3) *	454.5
	SPEC CONDUCTANCE (US/CM)	1540.	ALKALIMITY (F	PHENOL AS CACO3)	0.0
ь.	THE THE THE STATE OF THE BEST OF THE PARTY OF THE STATE O				

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STATION OOSA11AE0008 EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY

DATE SAMPLED DEC 02, 1981 1220 HOURS CST SUBMITTER ID 0003

RESULT CODES NV - NO VALUE IN - INTERFERENCE

DALCULATED VALUE IS - INSUFFICIENT SAMPLE

ALL VALUES IN MG/L EXCEPT OTHERWISE NOTED

*** HEAVY METALS, TRACE	ELEMENTS: AND TO	OXIC MATER	FALS ***
ARSENIC (DISS.)	0.0010	BARIUM	(TOTAL)
BORON (DISS)	2 + 0	CADMIUM	(TOTAL)
COBALT (TOTAL)	L0.002	COPPER	(TOTAL)
CYANIDE (TOTAL)	0.004	IRON	(DISS.)
LEAD (TOTAL)	L0.004	MANGANESE	(DIES.)
MERCURY (UG/L) (TOTAL)	L0.02	NICKEL	(TOTAL)
SELENIUM (DISS.)	L,0005	MUIUAMAV	(TOTAL)
ZINC (TOTAL)	L0.001		

	•	
*** SYNTHETIC ORGANIC COMPOUNDS	米米米 (RE	ESULTS IN UG/L)
2,4,5-1	L0.002	2 f 4 - D
2,4-38	L0.009	2,4-DF
ALBRIN	1.0.001	AROCLOR 1242
AROCLOR 1254	L0,002	AROOLOR 1240
AROCLOR TOTAL	L0.002	ALPHA-BHC
ALPHA-CHLORDANE	L0.003	GAMMA-CHLORDANE
P.P'-DDD	L0.002	PrPIDE
FyF:-DDT	L0.004	0:P'-PDT
DIELDRIN ,	L0.002	ALPHA-ENDOSULFAN
BETA -ENDOSULFAM	10.003	ENBRIN
HEPTACHLOR	L0.001	HEPTACHLOR EPOXIDE
LINDANE	L0,001	MCPA
METHOXYCHLOR	L0.01	PICLORAM
SILVEX	L0.004	HIREX
HCB	L0.001	

0.05 L0.001 0.06 0.14 0.002 L0.001 L0.004 L0.004 L0.002 L0.005 0.001 L0.002 L0.005

L0:001

L0.002 L0.002

L0.2 -L0.2 L0.001-

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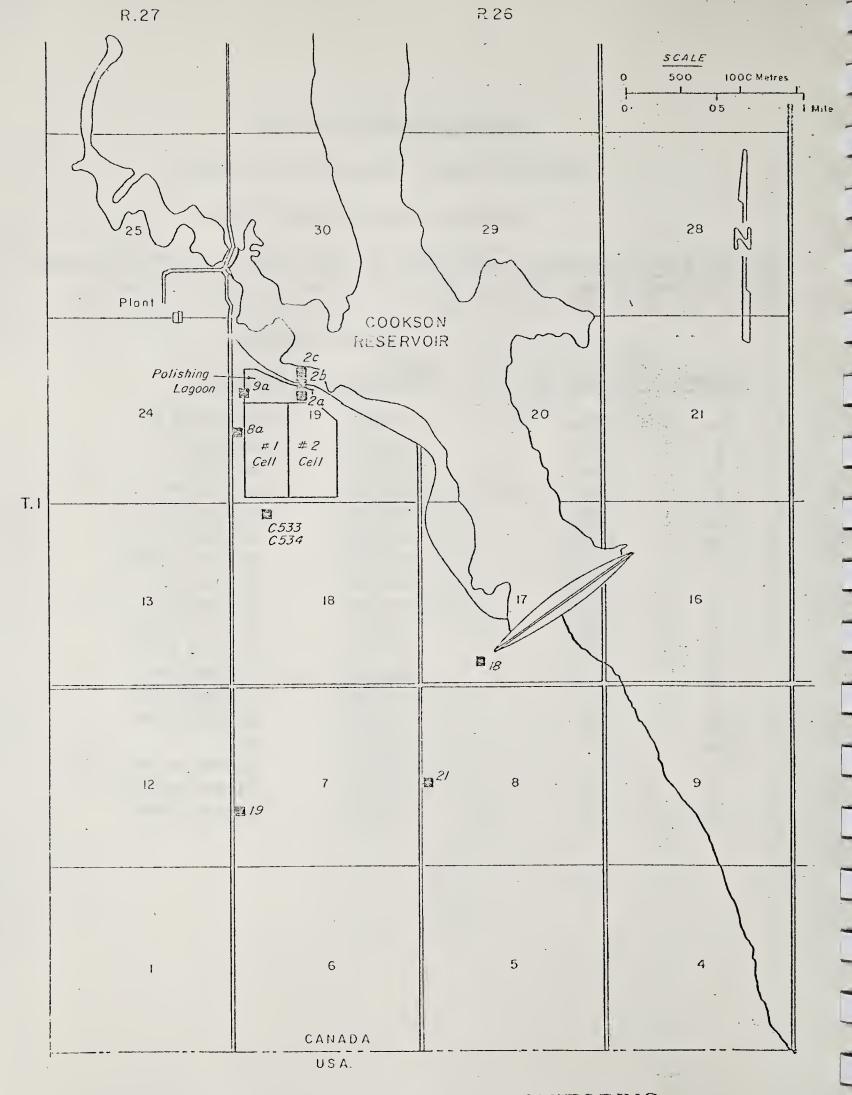
GROUNDWATER QUALITY MONITORING

Responsible Agency: Saskatchewan Environment

Sampling Frequency: Annual (Fall)

Parameters to be monitored: water level, pH, cosd., major ions, TDS(calulated), Total alk/acidity, NO₃, color, B, Ba, F, Fe, Cu, iin, Zn, Cd, Cr, Al, Pb, Hg, Mo, Sr, Co, Se, V, Silica, As, U, Li.

		Station Description			
C	SPC	Sampling Elevation (m)			
Station	Piezometer No.	Elevation (m)	Material		
8a	C726A	746.338	unoxidized till		
	C726B	751.040	mottled till		
	C726C	752.739	oxidized till		
	. C726D	755.543	oxidized till		
8a	C726E	738.725	empress gravel		
9a	C728A	753.405	oxidized till		
	C728B	743.265	unoxidized till		
	C728C	747.645	mottled till		
	c728D	752.305	oxidized till		
9a	C728E	739.912	empress gravel		
2a	C712B	746.112	oxidized till		
2 b	C718	748.385	mottled till		
2c	C71 9	747.715	oxidized till		
C533	C533	740.441	empress gravel		
C534	C534	753.499	till		
18	c741	735.153	empress gravel		
19	C735	753.7 89	empress gravel		
21	C742	741.800	empress gravel		



GROUNDWATER QUALITY MONITORING

Ground Water Quality

Annual Sampling	Annual Sampling					
LOCATION 8a C726A	(
DATE		1980	1981	าษธา	1981	
AGENCY		SEPT	A⊋R. S≥C	JULY SPC	NOV	
		SPC	3-6	Srt	SPC	
PARAMETERS					,	
Water Level	m	755.42	755.10	754.01	750.22	
TDS (sum of ions)	mg/L	656	849	530	700	
рН	us/cm	8.06	7.74	8.36	7.67	
conductivity	us/cm	966	1290	1070	1200	
HC03	mg/L	412	598	349	508	
co3	mg/L					
C1	mg/L	23	21	22	21	
so ₄	mg/L	180	156	154	154	
Ca	mg/L	52	117	26	68	
Mg	mg/L	46	56	48	51	
K	mg/L	10.0	8.4	8.8	8.0	
Na	mg/L	82.0	92	85	. 84	
Fe	mg/L	23.0	0.57	0.79	24.8	
Mn	mg/L	0.07	1.7	1.81	2.5	
Total Alkalinity/A	cidity mg/L	338	490	291	417	
NO3 -N	mg/L	0.004	0.005	0.015	0.032	
Apparent Colour	mg/L		5	5	5	
Ва	mg/L		0.1	L0.1	L0.1	
F	mg/L		0.35	0.13	0.2	
Cu	mg/L	0.28	0.25	0.36	0.063	
Zn	mg/L	0.22	0.028	0.011	0.015	
Cd	mg/L	L0.001	L0.001	L0.001	0.005	
Cr	mg/L	0.07	0.01	0.01	0.03	
Al	mg/L	23.0	1.02	1.96	14.80	
Pb	mg/L	0.012	L0.304	0.023	0.04	
Hg	mg/L	L 0.0001	LO.0001	L0.0001	0.0002	
Мо	mg/L		L0.05	0.09	L0.05	
Sr	mg/L		0.65	0.85	0.94	
Co	mg/L		0.004	0.005	0.012	
Se	mg/L	0.0019	0.0003	L0.0002	L0.0002	
٧	mg/L		L0.004	L0.004	0.016	
Silica	mg/L	16.5	13.8	17.5	19.5	
As	mg/L		0.002	0.0022	0.009	
U	mg/L		0.0001	0.0077	0.020	
Li	mg/L		0.105	0.105	0.147	
В	mg/L	0.7	0.5	0.55	0.55	

Ground Water Quality

Annual	Samp	1 i	ng

LOCATION 8a C726B

DATE		1980	1981	1981	1981
AGENCY		SEPT. SPC	APR. SPC	JULY SPC	NOV SP€
		316	:	5. 0	
PARAMETERS					201.20
Water Level	m		755.18	755.19	754.72
TDS (sum of ions)	mg/L		65000	68500	85000
рН	us/cm		7.44	7.98	7.48
conductivity	us/cm		10010	49021	48300
HCO-	mg/L		1550	1605.	973
C03	mg/L				
Cl	mg/L		240	222	200
s0 ₄	mg/L		76000	50200	59000
Ca	mg/L		590	437	418
Mg	mg/L		14200	10950	12700
K	mg/L		335	300	314
Na	mg/L		7800	5500	6 500
Fe	mg/L		0.11	0.15	1.8
Mn	mg/L		1.41	1.78	3.4
Total Alkalinity/A	cidity mg/L	D .	1270	1316	7970
N03-N	mg/L		0.004	0.025	0.037
Apparent Colour	mg/L	R	500	500	600
Ba	mg/L	V	LO.1	0.1	1.4
F	mg/L	Y	0.43	0. 25	0.32
Cu	mg/L		0.45	0.49	0.07
Zn	mg/L		0.08	0.04	0.03
Cd	mg/L		L0.001	L9.001	0.012
Cr	mg/L		L0.01	0.09	0.12
A1	mg/L		0.03	1.4	1.57
Pb	mg/L		0.022	0.027	0.049
Нд	mg/L		L0.0001	L9.0001	0.0002
Mo	mg/L		L0.05	0.05	0.34
Sr	mg/L		15.0	23.0	16.8
Со	mg/L		0.066	0.071	0.064
Se	mg/L		0.002	L0.0002	L0.0002
٧	mg/L		0.004	L0.004	0.008
Silica	mg/L		7.3	6.3	8.5
As	mg/L		L0-0002	0.016	0.0029
V	mg/L		L0.0001	0.0003	0.400
Li	mg/L		8.3	8.3	9.14
В	mg/L		1.25.	1.4	1.43
	J, -				

Ground Water Quality

Annual Sampling					
LOCATION 8a C726C					
DATE		1980	1981	1981	1981
AGENCY		SEPT SPC	APR. SPC	JULY SPC	NOV SPC
PARAMETERS				•	
Water Level •	m	754.64	754.92	755 . 05	755.17
TDS (sum of ions)	mg/L	905	389	540	1200
рН	us/cm	7.85	7.86	8.51	7.91
conductivity	us/cm	1340	1370	1080	1700
HCO ₃	mg/L	683	617	352	605
CO3	mg/L				
C1	mg/L	3.5	' .0	3.9	4.5
so ₄ .	mg/L	215	310	189	500
Ca	mg/L	130	73	23	18
Mg	mg/L	74.0	94	81	\122
K	mg/L	20.0	29.5	22.0	30
Na ·	mg/L	35.0	88	35	161
Fe	mg/L.	1.3	0.51	0.15	0.64
Mn	mg/L	0.22	0.11	0.11	0.1
Total Alkalinity/Ac	idity mg/L	560	506	305	496
NO3 -N .	mg/L	L 0.003	J.G04	0.028	0.018
Apparent Colour	mg/L		5	5	L5
Ba	mg/L		L0.1	0.1	L0.1
F	mg/L		0.45	0.17	0.29
Cu	mg/L	0.18	0.31	0.35	0.14
Zn	mg/L	0.13	3.024	0.068	0.069
Cd	mg/L	L 0.001	13.601	L0.001	0.006
Cr	mg/L	L0.01	0.01	E0301	0.01
A1	mg/L	1.05	0.84	0.24	0.56
РЬ	mg/L	0.025	1.007	0.023	0.046
. Hg	mg/L	L 0.0001	L0.0001	L0.0001	0.0002
Mo .	mg/L	•	10.05	0.05	L0.05
Sr	mg/L		0.1	0.66	0.84
Со	mg/L		1.602	L0.001	L0.001
Se	mg/L	0.0003	0.0003	L0.0002	L0.0002
V	mg/L		LJ_904	L0.004	L0.004
Silica	mg/L	20.4	21.7	22.5	21.7
As	mg/L		0_0009	0.0014	0.0006
U	mg/L		0_0001	0.0082	0.092
Li	mg/L		0.21	0.188	0.24
В	mg/L	0.33	0.36	0.38	0.4

Annual Sampling					
LOCATION 8a C726D					
DATE		1980	1981	1981	1981
AGENCY		SEPT	APR.	JULY	NOV
		SPC	SPC	SPC	SPC
PARAMETERS					
Water Level	m				
TDS (sum of ions)	mg/L				
рН	us/cm				
conductivity	us/cm				
HC03	15				
Cul	mg/L				
C1	mg/L				
s0 ₄	mg/L				
Ca	mg/L				
Mg 	mg/L				
K	mg/L				
Na	mg/L				
Fe	mg/L	D	D		
Mn	mg/L	D	D	p p	D
Total Alkalinity/Ac		R Y ^	R Y	R Y ·	R
NO ₃ -N	mg/L	I	ı	Υ .	Υ
Apparent Colour	mg/L				
Ba F	mg/L				
Cu	mg/L mg/L				
Zn	mg/L				
Cd	mg/L				
Cr	mg/L				
A1	mg/L				
Pb	mg/L				
Нд	mg/L				
Мо	mg/L				
Sr	mg/L				
Со	mg/L				
Se	mg/L				
٧	mg/L				
Silica	mg/L				
As	mg/L				
U	mg/L				
Li	mg/L				
В	mg/L				

Ground Water Quality

Annual Sampling					
LOCATION 8a C726E	•				
DATE		1980	1981	1981	1981
AGENCY		SEPT	MAR.	JULY	NOV SPC
PARAMETERS		SPC	SPC	SPC	31 0
Water Level	m	751.64	751.72	751.63	751.35
TDS (sum of ions)	mg/L			500	725
рН	us/cm			8.33	7.68
conductivity	us/cm			1060	1170
HCO ₃	mg/L			349	562
CO3	mg/L				
C1	mg/L			4.5	4.5
s0 ₄	mg/L			172	180
Ca	mg/L			29	88
Mg	mg/L	,		62	66
K	mg/L			7.7	6.8
Na	mg/L			47	58
Fe	mg/L			0.67	0.77
Mn	mg/L			0.24	0.17
Total Alkalinity/A	cidity mg/L			288	461
N03 -N	mg/L			0.016	0.026
Apparent Colour	mg/L			5	L5
Ba	mg/L			L0.1	1.1
F	mg/L			0.18	0.30
Cu	mg/L			0.25	0.04
Zn	mg/L			0.027	0.014
Cd	mg/L			L0.001	0.002
Cr	mg/L			L0.01	L0.01
Al	mg/L			0.79	0.25
Pb	mg/L			0.039	0.055
Нд	mg/L			0.0002	0.0002
Мо	mg/L			L0.05	L0.05
Sr	mg/L			1.25	1.23
Со	mg/L			0.004	L0.001
S e	mg/L			0.0004	L0.0002
V	mg/L			L0.004	L0.004
Silica	mg/L			17.5	18.7
As	mg/L			0.0029	0.0011
U	mg/L			0.0004	0.005
Li	mg/L			0.069	0.077
В	mg/L			0.78	0.77

Annual Sampling					
LOCATION 9a C728A					
DATE		19,80	1981	1981	1981
AGENCY		OCT. SPC	APR. SPC	JUEY SPC	NOV SPC
PARAMETERS		51.0	,		
		:			
Water Level TDS (Sum of ions) pH cond (vity) CO3 C1 SO4 Ca Mg K Na	m mg/L us/cm us/cm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/				
Fe .	mg/L				
Mn Total Alkalinity/Ac	mg/L idity mg/L				
NO.3 -N	mg/L	D	D	D _{i,ee}	D
Apparent Colour Ba	mg/L mg/L	R	R	8,21	R
F Cu Zn Cd Cr A1	mg/L mg/L mg/L mg/L mg/L mg/L	Y	Y	Υ	Υ
РЬ	mg/L				
Hg Mo Sr Co Se V Silica As	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L				
Li	mg/L				
В	mg/L			steha	

Ground Water Quality

Annual Sampling					
LOCATION 9a C728B					
DATE		1980	1381	1981	1981
AGENCY		SEPT	APR.	JULY	NOV
		SPC	SPC	SPC	SPC
PARAMETERS					
Water Level .	m	750.67	750.98	750.35	750.19
TDS (sum of ions)	mg/L	1387	1360	1010	1150
рН	us/cm	7.63	7.84	7.92	7.65
conductivity	us/cm	2000	1850	1750	1820
нсо3	mg/L	722	632	414	565
CO3	mg/L				
C1	mg/L	22	21	22	22
s0 ₄	mg/L	500	494	447	469
Ca	mg/L	182	160	74	121
Mg	mg/L	71.0	85	73	7 8
К	mg/L	9.2	9.9	9.6	9.3
Na ·	mg/L	151	170	143	151
Fe	mg/L	1.25	0.65	1.35	0.72
Mn	mg/Ł	1.32	0.75	0.67	0.67
Total Alkalinity/A	cidity mg/L	592	578	340	463
NO3 -N	mg/L	0.006	0.005	0.015	0.010
Apparent Colour	mg/L		5	10	L5
Ba	mg/L		0.7	L0.1	0.8
F	mg/L		0.35	0.13	0.19
Cu	mg/L	0.17	0.31	0.27	0.093
Zn	mg/L	0.12	0.025	0.025	0.03
Cd	mg/L	L0.001	L0.007	L0.001	0.001
Cr	mg/L	0.01 -	0.02	L0.01	L0.01
A1	mg/L	0.71	1.27	1.54	0.38
РЬ	mg/L	0.28	0.004	0.033	0.057
Нд	mg/L	L0.0001	L0.5001	L0.0001	0.0002
Mo	mg/L		L0.05	L0.05	0.06
Sr ·	mg/L		1.30	1.6	1.55
Co	mg/L		0.003	0.007	0.003
Se	mg/L	0.0008	L0.0002	0.0003	L0.0002
٧	mg/L		L0.00=	0.007	L0.004
Silica	mg/L	15.5	15.7	15.5	16.5
As	mg/L		0.0037	0.0056	0.0005
U					
	mg/L		L0.0001	0.0055	0.0018
Li	mg/L mg/L		0.12	0.0055	0.0018

Annual Sampling					
LOCATION 9a C7280	C				
DATE	•	1980	1981	1981	1981
AGENCY		OCT. SPC	MAR. SPC	JULY SPC	NOV SPC
PARAMETERS					
Water Level	m				748.51
TDS (sum of ions)	mg/L				2100
рН	us/cm				7.54
conductivity	us/cm				2800
HCO3	mg/L				609
003	mg/L				
C1	mg/L				67
so ₄	mg/i				1070
Ca	mg/L				284
Mg	mg/L				120
K	mg/L				10.8
Na	mg/L				225
Fe	mg/L				1.6
Mn	mg/L				1.4
Total Alkalinity/Ad		D	D	D	500
N03-N	mg/L				0.68
Apparent Colour	mg/L	R	R	R	L5
Ba ₋	mg/L ·				0.2
F	mg/L	Y	Υ	Υ	0.15
Cu	mg/L				0.048
Zn	mg/L				0.002
Cd ·	mg/L				0.002
Cr	mg/L				0.53
A1	mg/L				0.43
Pb	mg/L				0.0002
Нg	mg/L				0.12
Mo	mg/L				1.79
Sr	mg/L	•			0.005
Co ·	mg/L				L0.0002
Se	mg/L				0.004
V Silia-	mg/L				17.7
Silica	mg/L				0.001
As U	mg/L				0.0013
	mg/L mg/L				0.22
Li B	mg/L mg/L				0.8
	3/ -				

Annual Sampling

LOCATION 9a C728D					
DATE		1980	1981	1987	1981
AGENCY		OCT. SPC	MAR. SPC	JULY SPC	NOV SPC
PARAMETERS		376	376	SPE	376
				•	
Water Level	m _.				
TDS (sum of ions)	mg/L				
pH conductivity	us/cm us/cm		•		
HCO ₃	mg/L				
CO ₃	mg/L				
Cl	mg/L				
S0 ₄	mg/L				
Ca	mg/L				
Mg	mg/L				
· K	mg/L				
Na	mg/L				
Fe	mg/L	D	D	5	
Mn	mg/L	U	U	Ď	D
Total Alkalinity/Ad	cidity mg/L	R	R	R	R
N03-N	mg/L	,,	.,	7.2	K
Apparent Colour	mg/L	Υ	Υ	Y	Y
Ва	mg/L				
F	mg/L				
Cu	mg/L				
Zn	mg/L				
Cd	mg/L				
Cr Al	mg/L				
Pb	mg/L mg/L				
Hg	mg/L				
Mo	mg/L				
Sr	mg/L				
Со	mg/L				
Se ·	mg/L				
٧	mg/L				
Silica	mg/L				
As	mg/L				
U	mg/L				
Li	mg/L				
В	mg/L				

Ground Water Quality

	Annual Sampling					
	LOCATION 9a C728E					
	DATE		1980	1981	1981	1981
	AGENCY		SEPT SPC	APR. SPC	JULY SPC	NOV SPC
	PARAMETERS		310	3. 0		
				•		
	Water Level	m (1	751.69	751.94	751.68	751.23
	TDS (sum of ions)	mg/L	920	957	570	800
•	рН	us/cm	7.56	7.83	8.16	7.67
	conductivity	us/cm	1380	1350	1220	1300
	HCO ₃	mg/L	746	746	461	620
	co3	mg/L				
	C1	mg/L	7.0	9.4	9.1	8.9
	s0 ₄	mg/L	. 165	187	140	192
	Ca	mg/L	128	120	36	90
	Mg	mg/L	65.0	68	62	64
	К	mg/L	8.0	8.2	9.1	7.9
	Na	mg/L	79 -	96	73	84
	Fe	mg/L	4.3	9.9	2.26	1.40
	Mn	mg/L	0.63	0.75	0.57	0.52
	Total Alkalinity/A	Acidity mg/L	612	612	37 8	508
	$N0_3 - N$	mg/L	L0.003	0.003	0.017	0.023
	Apparent Colour	mg/L		5	5	L5
	Ва	mg/L		0.1	0.2	0.7
	F	mg/L		0.46	0.17	0.27
	Cu	mg/L	0.29	0.220	0.34	0.033
	Zn	mg/L	0.083	L0.001	0.02	0.017
	Cd	mg/L	⊾0.001	L0.001	רס יסטו	0.003
	Cr	mg/L	L0.01	0.01	0.03	0.02
	Al	mg/L	0.77	0.93	0.11	0.76
	Pb	mg/L	L0.004	0.006	0.012	0.062
	Нд	mg/L	L0.0001	L0.0001	L0:0001	0.0002
	Mo	mg/L		0.02	L0.05	L0.05
	Sr	mg/L		1.10	1.31	1.38
	Co	mg/L		L0.001	0.002	L0.001
•	Se	mg/L	0.0004	L0.0002	0.0003	L0.0002
	٧	mg/L		L0.004	L0.004	L0.004
	Silica	mg/L	15.5	17.4	16.4	17.7
	As	mg/L		0.095	0.003	0.0006
	U	mg/L		0.0005	0.0002	0.0034
	Li	mg/L		0.081	0.075	0.096
	В	mg/L	1.15	1.08	1.10	1.17
		J				

Ground Water Quality

Annual Sampling					
LOCATION 2a C712B					
DATE		1980	1381	1981	1981
AGENCY		SEPT SPC	APR. SPC	JULY SPC	NOV SPC
PARAMETERS					
Water Level	m	752.16	752.57	752.39	752.53
TDS (sum of ions)	mg/L	1102	1270	1480	2800
рН	us/cm	8.0	8.0	8.11	7.9
conductivity	us/cm	1830	1710	2100	3192
HCO ₃	mg/L	312	416	312	377
CO3	mg/L				
C1	mg/L	18.0	18	25.	47
s0 ₄	mg/L	590	654	835	1710
Ca	mg/L	103	178	217	470
Mg	mg/L	9 9	80	102	160
К	mg/L	8.8	10.1	11.0	12.0
Na	mg/L	84.0	129	95	124
Fe	mg/L	2.9	2.49	1,71	4.4
Mn	mg/L	0.19	0.80	0.23	0.26
Total Alkalinity/A	cidity mg/L	256	341	256	309
NO3 -N	mg/L	2.8	1.56	2.5	6.7
Apparent Colour	mg/L		35	20	45
Ba	mg/L		10.1	L0.1	8.0
F	mg/L		0.38	0.26	0.30
Cu	mg/L	0.2	9.27	0.76	0.029
Zn	mg/L	00063	0.05	0.025	0.003
· Cd ·	mg/L	L0.001	L0.001	L0.001	0.004
Cr	mg/L	0.02	0.02	0.20	0.02
Al	mg/L	1.82	1.5	3.0	2.26
Pb	mg/L	0.01	0.004	0.033	0.012
Нд	mg/L	L0.0001	0.0002	0.0001	0.0002
Мо	mg/L		. 0.01	0.12	L0.05
Sr	mg/L		0.65	1.0	1.91
Co	mg/L		0.001	0.005	0.003
Se	mg/L	0.0021	0.0025	0.0062	0.0013
٧	mg/L		0.006	0.011	0.013
Silica	mg/L	18.0	19.4	20.0	20.5
As	mg/L		0.0023	0.0096	0.0024
U	mg/L		0.0307	0.0716	0.070
Li	mg/L		0.102	J0J094	0.150
В	mg/L	0.43	0.55	0.58	0.5

Annual Sampling					
LOCATION 2b C718					
DATE		1980	1981	1981	1981
AGENCY		OCT SPC	APR. SPC	JULY SPC	NOV SPC
PARAMETERS					
Water Level	m		752.49	752.36	751.43
TDS (sum of ions)	mg/L		752.75	570	775
pH .	us/cm			8.07	7.85
conductivity	us/cm			1130	1210
HCO ₃	mg/L			418	566
CO ₃	mg/L			.,,	
Cl	mg/L			12	. 13
SO ₄	mg/L			142	171
Ca	mg/L			46	96
Mg	mg/L			54	60
K	mg/L			7.4	6.8
Na	mg/L			65	73
Fe .	mg/L			0.65	1.2
Mn	mg/L	D		0.6	0.56
Total Alkalinity/A	cidity mg/L	R		343	464
NO3 -N	mg/L	Y		0.91	1.02
Apparent Colour	mg/L			10	_ 15
Ba	mg/L			L0.1	0.8
F	mg/L			0.14	0.2
Cu	mg/L			0.25	0.028
Zn	mg/L			0.034	0.008
Cd	mg/L			0.003	0.005
Cr	mg/L			L0.01	0.01
Al	mg/L			0.92	1.63
Pb	mg/L			0.038	0.033
Нд	mg/L			L0.0001	0.0002
Мо	mg/L			0.03	L0.05
\ .Sr	mg/L			0.56	0.70
Co	mg/L			0.003	0.001
Se	mg/L			0.0007	L0.0002
V	mg/L			L0.004	0.004
Silica	mg/L			19.0	19.5
As	mg/L			0.0008	0.0007
V	mg/L			0.028	0.068
Li	mg/L			0.101	0.166
В	mg/L			0.44	0.50

Annual Sampling					
LOCATION 2c C719					
DATE		1980	1931	1981	1981
AGENCY		OCT SPC	AFR. SF€	JULY SPC	NOV SPC
PARAMETERS					
Water Level	m	752.02	752.67	751.84	751.69
TDS (sum of ions)	mg/L			3 35 0	3900
рН	us/cm			7. 63	7.61
conductivity	us/cm			4398	4520
HC03	mg/L			430	606
C03	mg/L				
C1	mg/L			107	110
so ₄	mg/L			2000	2250
Ca	mg/L			387	494
Mg .	mg/L			241	241
K	mg/L			10.0	11.9
Na	mg/L			350	410
Fe	mg/L			1.23	0.51
Mn	mg/L			0.02	0.03
Total Alkalinity/Ac	idity mg/L			353	497
NO3 -N	mg/L			16.8	18.0
Apparent Colour	mg/L			10	15
Ba	mg/L			0.2	0.1
F -	mg/L			0.14	0.22
Cu	mg/L			0.29	0.01
Zn	mg/L			0.035	0.016
Cd	mg/L			L0.001	0.003
Cr	mg/L			0.02	0.04
A1	mg/L			1.38	0.89
Pb .	mg/L			0.044	0.015
Нд	mg/L			L0.0001	0.0002
Мо	mg/L			LO.05	0.15
Sr	mg/L			2.47	1.65
Со	mg/L			L0.001	L0.001
Se	mg/L			0.163	0.0015
٧	mg/L			LO.004	L0.004
Silica	mg/L			21.4	22.0
As	mg/L			0.0033	0.0007
U	mg/L			0.167	0.220
Li	mg/L			0.28	0.154
В	mg/L			0.93	1.5

Ground Water Quality

Annual Sampling					
LOCATION C533					
DATE		1980	1981	1981	1981
AGENCY		SEPT SPC	APR. SPC	JULY SPC	NOV SPC
PARAMETERS		310	v	0.0	
•	_	751.31	773 10	75. 00	750 00
Water Level	m ma/l	1065	751.43	751.28	750.89
TDS (sum of ions)	mg/L ,	7.88	1090	791	950
pH	us/cm us/cm	1580	8.1	8.22	7.8
conductivity		776	1510	1470	1490
HCO3	mg/L	770	778	488	688
CO3	mg/L	F 0			
C1	mg/L	5.0	4.4	4.3	4.1
SO ₄	mg/L	257	272 _	247	249
Ca	mg/L	109	109	31	89
Mg	mg/L	64	78	6 6	71
K	mg/L	9.5	9.1	9.4	9.2
Na	mg/L	. 137	147	126	152
Fe	mg/L	0.90	0.69	0.68	3.1
Mn	mg/L	0.27	0.3	0.27	0.26
Total Alkalinity/A	cidity mg/L	6 36	638	400	564
NO ₃ -N	mg/L	0.016	0.013	0.019	0.024
Apparent Colour	mg/L		5	5	L5
Ba	mg/L		0.1	0.1	0.7
F	mg/L		0.37	0. 09	0.23
Cu	mg/L	. 0.042	0.11	0.17	0.013
Zn	mg/L	9.5	10.4	9.3	9.1
Cd	mg/L	L0.001	L0.001	00001	0.003
Cr	mg/L	0.02	0.01	L0.01	0.04
Al	mg/L	0.36	0.42	0.80	0.66
РЬ	mg/L	0.018	0.009	0.026	0.061
Hg ·	mg/L	L0.0001	L0.0001	L0.0001	0.0001
Mo	mg/L		0.02	L0.05	L0.05
Sr	mg/L		1.2	1.5	1.55
Со	mg/L		0.002	0.006	L0.001
Se	mg/L	L0.0002	L0.0002	0.0002	L0.0002
٧	mg/L		L0.004	L0.004	L0.004
Silica	mg/L	14.3	14.7	14.3	15.3
As	mg/L		0.0015	0.0027	0.0042
U	mg/L		0.0001	L0.0001	0.0508
Li	mg/L		0.121	0.101	0.123
В	mg/L	2.13	2.03	1.98	2.15
_	3/ _	2.10			2.15

Ground Water Quality

Anı	nual Sampling					
LO	CATION C534					
DA ⁻	TE		1980	1981	1981	1981
AGI	ENCY		SEPT SPC	<i>IP</i> R. SPC	JULY SPC	NOV SPC
PAI	RAMETERS					
1	Water Level	m	758.08	757.62	757.62	757.45
	TDS (sum of ions)	mg/L	4250	4250	3700	3500
	рН	us/cm	7.58	7.70	7.71	7.68
(conductivity	us/cm	5400	5160	4839	5060
	HCO3	mg/L	622	656	230	588
	CO ₃	mg/L	,			
(Cl	mg/L	300	298	298	5
:	S0 ₄	mg/L	2400	2320	2140	2250
į	Ca	mg/L	511	539	455	543
1	Mg	mg/L	286	339	300	312
	K	mg/L	13.5	17.0	11.0	9.2
	Na	mg/L	340	337	327	17
	Fe	mg/L	0.51	0.25	0.32	0.21
	Mn	mg/L	0.18	0.12	0.18	0.21
	Total Alkalinity/Ad	idity mg/L	510	538	189	482
	NO ₃ -N	mg/L	38	32	32	41
	Apparent Colour	mg/L		10	. 10	L5
	Ba	mg/L		10.1	0.1	L0.1
	F	mg/L		0.32	0.11	0.21
	Cu	mg/L	0.068	0.13	0.14	0.012
	Zn	mg/L	9.2	18.7	19.6	35.00
	Cd	mg/L	L0.001	L0.001	L0.001	L0.001
	Cr	mg/L	0.01	L3.01	L0.01	L0.01
	Al	-mg/L	0.3	3.04	0.42	0.5
	РЬ	mg/L	0.012	L0.004	0.12	0.02
	Нд	mg/L	0.0001	0.0001	0.0002	0.0002
	Мо	mg/L		0.02	0.06	0.12
	Sr	mg/L		1.8	3.1	2.16
	Со	mg/L		L0.001	0.003	L0.001
	Se	mg/L	0.35	0.024	0.0097	0.0014
	V	mg/L		L0.004	L0.004	L0.004
	Silica	mg/L	15.0	13.5	14.6	16.7
	As	mg/L		LO.0002	0.0008	0.0006
	U	mg/L		.0022	L0.0001	0.0772
	Li	mg/L		0.43	0.41	0.47
	В	mg/L	0.78	0.72	0.73	0.5

Ground Water Quality

Annual Sampling					
LOCATION 18 C741					
DATE		1980	1981	1981	1981
AGENCY		OCT	APR.	JULY SPC	NOV SPC
PARAMETERS		SPC	SPC	31.0	31 0
- Water Level	m m m (1)	746.46	746.49	747.24	746.48
TDS (sum of ions)	mg/L	1010	1090	850	975
pH	us/cm	8.05	7.86	8.19	7.69
conductivity	us/cm	1510	1540	1430	1560 574
HCO3	mg/L	721	706	485	5/4
CO3	mg/L		7 7	C 4	9.3
C1	mg/L	6.5	7.7	6.4	318
s0 ₄	mg/L	255	306	243	310
Ca	mg/L	91	111	35	76
Mg	mg/L	44	60	48	56
Κ .	mg/L	8.2	8.3	8.7	8.5
Na	mg/L	166	771	163	166
Fe	mg/L	1.3	1.17	1.75	1.10
Mn	mg/L	0.18	0.25	0.11	0.16
Total Alkalinity/A	cidity mg/L	591	579	398	471
N03-N	mg/L	0.168	1.14	0.53	1.91
Apparent Colour	mg/L		5	5	L5
Ba	mg/L		0.1	0.1	0.2
F	mg/L		0.32	0.21	0.30
Cu	mg/L	0.19	0.19	0.24	0.036
Zn	mg/L	0.26	0.088	0.077	0.013
Cd	mg/L	0.001	L0.001	L0.001	0.006
Cr	mg/L	∟0.01	0.91	0.06	L0.01
Al	mg/L	0.71	0.75	1.06	0.65
Pb	mg/L	L0.004	L0.004	0.008	0.11
Нд	mg/L	L0.0001	0.0001	L0.0001	0.0002
Мо	mg/L		0.02	0.03	0.11
Sr	mg/L		1.7	2.0	1.85
Со	mg/L		L0.001	0.004	L0.001
Se	mg/L	0.0003	0.001	0.0019	L0.0002
٧	mg/L		L0.004	L0.004	0.004
Silica	mg/L	12.2	13.0	13.0	15.0
As	mg/L		0.0011	0.0027	0.0007
U	mg/L		0.0001	0.0003	0.004
Li	mg/L		0.112	0.105	0.118
В	mg/L	2.15	2.00	2.00	2.00

Annual Sampling					
LOCATION 19 C735					
DATE		19.80	1981	1981	1981
AGENCY		OCT.	APR.	JULY	ИОЛ
PARAMETERS		SPC	SPC	SPC	SPC
Water Level	m				
TDS (sum of ions)	mg/L				
рН	us/cm				
conductivity	us/cm				
HCO3	mg/L				
co ₃	mg/L			•	
C1	mg/L				
so ₄	mg/L .				
Ca	mg/L				
Mg	mg/L				
K	mg/L				
Na	mg/L	D	D	D	D
Fe	mg/L	R	R	R	R
Mn	mg/L				
Total Alkalinity/Ad		Y	Υ	Υ	Y
NO3-N	mg/L				
Apparent Colour	mg/L				
Ba	mg/L				
F	mg/L				
Cu	mg/L				
Zn	mg/L				
Cd	mg/L				
Cr	mg/L				
Al	mg/L				
РЬ	mg/L				
Нд	mg/L				
Мо	mg/L				
Sr	mg/L				
Со	mg/L				
Se	mg/L .				
٧	mg/L				
Silica	mg/L				
As	mg/L				
U	mg/L				
Li	mg/L			*	
В	mg/L				

Ground Water Quality

Annual Sampling					
LOCATION 21 C742					
DATE	-	1980	1981	1981	1981
		OCT.	APR.	JULY	NOV
AGENCY		SPC	SPC	SPC	SPC
PARAMETERS			`		
Water Level	m	747.05	746.95	746.90	746.75
TDS (sum of ions)	mg/L	960	975	775	925
pH	us/cm	7.86	7. 89	7.94	7.72
conductivity	us/cm	1430	1370	1350	1340
HC03	mg/L	45,4	407	285	418
co3 .	mg/L				
C1	mg/L	12	13'	13	13
so ₄	mg/L	410	419	390	403
Ca	mg/L	114	131	85	130
Mg	mg/L	84	90	81	82
K	mg/L	6.9	7.4	8.7	7.7
Na	mg/L	' 51	51	44	55
Fe	mg/L	2.5	1.27	1.45	0.87
Mn	mg/L	0.16	0.17	0.17	0.08
Total Alkalinity/Ad	cidity mg/L	372	334	234	343
NO3 -N	mg/L	0.65	0.3	0.21	0.072
Apparent Colour	mg/L		5	5	L5
Ва	mg/L		0.1	0.2	0.2
F	mg/L		0.35	0.12	0.22
Cu	mg/L	0.21	0.17	0.20	0.037
Zn	mg/L	0.15	0.12	0.02	0.036
Cd	mg/L	L 0.001	L0.001	L0.001	0.003
Cr	mg/L	0.04	0.01	L0.01	0.03
A1	mg/L	0.66	0.43	0.46	0.36
Pb	mg/L	0.009	0.009	U.01	0.14
Нд	mg/L	L0.0001	L0.0001	L0.0001	0.0003
Мо	mg/L		L0.05	0.05	L0.05
Sr	mg/L		1.5	2.1	2.03
Со	mg/L		L0.001	L0.001	L0.001
Se	mg/L	0.0001	0.0002	L0.0002	L0.0002
٧	mg/L		L0.004	L0.004	L0.004
Silica	mg/L	11.2	10.7	10.6	11.5
As	mg/L		0.0007	0.0008	0.0008
U	mg/L		0.0001	0.0003	0.0004
Li	mg/L		0.09	0.09	0.108
В	mg/L	0.93	0.82	0.83	0.87

GROUNDWATER PIEZOMETERS TO MONITOR

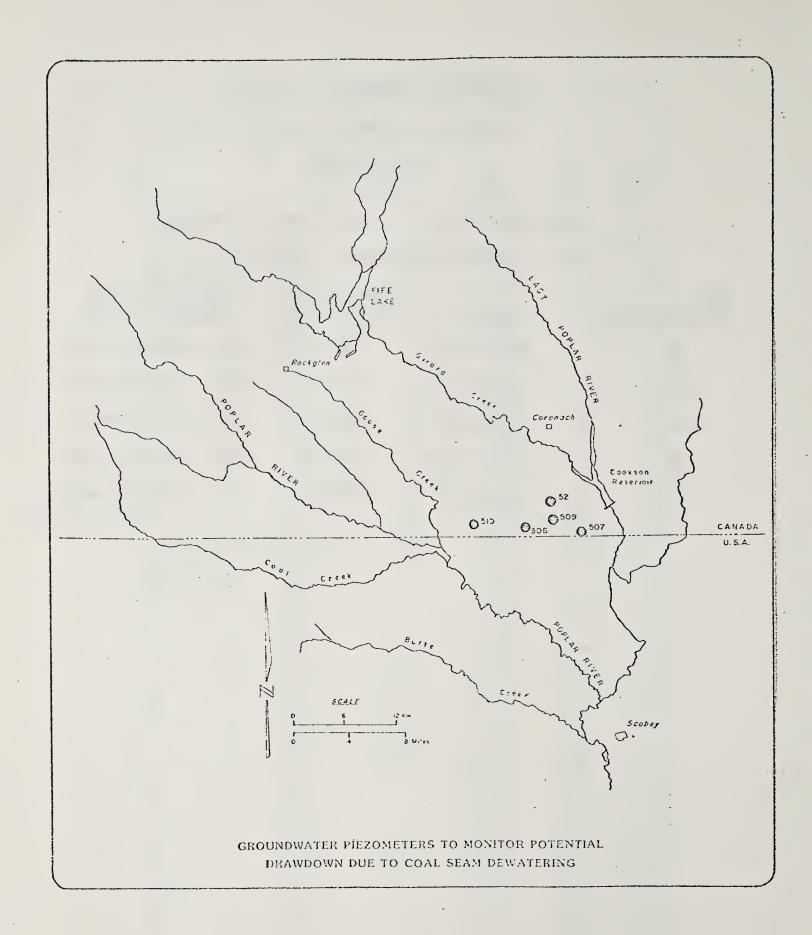
POTENTIAL DRAWDOWN DUE TO COAL

SEAM DEWATERING

Responsible Agency: Saskatchewan Environment

Measurement Frequency: Quarterly

SPC Piezometer No.	Location	Sampling Elevation (m)	Perforation Zone (depth in feet)
52	NW14-1-27W3	738.442	140 - 160 (in coal)
506	SW4-1-27W3	749.334	266 - 270 (in coal)
507	SW6-1-26W3	726. 703	110 - 114 (in coal)
509	NW11-1-27W3	7 25.770	248 - 252 (in coal)
510	NW1-1-28W3	770.279	92 - 96 (in layered coal and clay)



Ground Water Piezometers To Monitor
Potential Drawndown Due to Coal

Feb.

1982

		}	ŧ		Seast	on Dewate	Season Dewatering-Water Elevation (m)	r Elevati	(m) uot					
Diezometer	DOE Ref. No.	Jan.	Feb.	Mar.	_	1981 May	June	մսշջ	1981 June July Aug. Sept. Oct. Nov. Dec.	Sept.	Oct.	Nov.	Dec.	Jar
52	52	753.84	1	753.82	1	753.87	753.89	753.71	753.72	753.68	753.68 753.61	753.61	753.63	
7 T	206	RQ . 795.87		RQ 813.54	RQ RQ RQ RQ RQ 814.31 814.64 814.83 814.92 815.02	RQ 814.64	RQ 814.83	RQ 814.92	RQ 315.02	КŲ 814.98	KŲ 814.98 765.94' 765.91'	765.91	- *	
E0.2	507	746.18	746.15	746.15	746.22	746.21	746.22 746.21 746.26 746.11 746.14	746.11	746.14	746.10	*	750.12	*	
, oc	. 509	752.99	753.09		753.35.	753.35. 753.33	753.44 7	753.36	753.46	753.51	753.51 754.55	754.49	*	
510	510	777.46			777.49	777.48	777.55	777.46	777.49 777.48 777.55 777.46 777.44		777.42 778.46 778.35	778.35	778.41	
!														

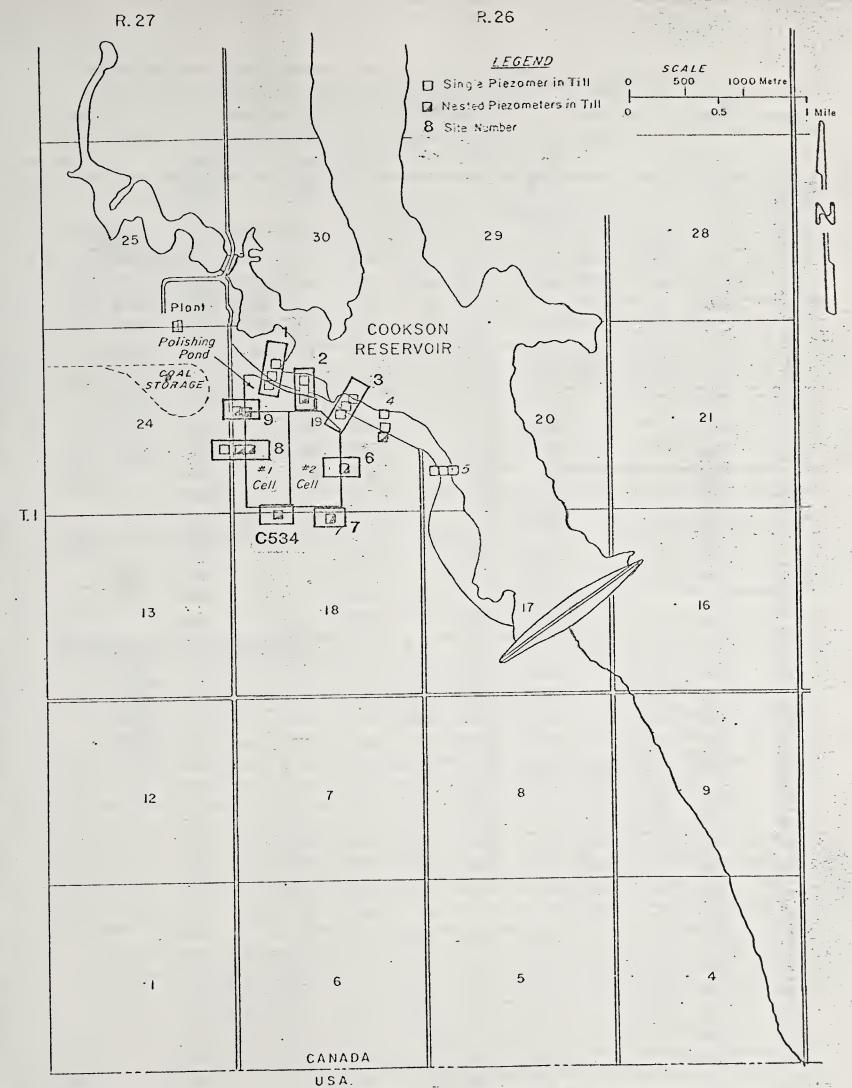
* inaccessible

^{&#}x27; 506A well- (506 damaged)

SCHEDULE A - PIEZOMETERS IN TILL

Responsible Agency: Saskatchewan Environment

	Frequency of Measurement
Piezometer	
1 a 1 b 1 c 2 a 2 a 2 a 2 a 2 a 2 b 2 c 3 a 5 b 3 c	Q Q M M M M M M Q Q
6a 6a 6a 6a 6a 7a 7a 7a 7a 7a 7a 7a 63 6a 7a 7a 7a 7a 7a 7a 7a 7a 7a 7a	Q Q Q Q Q Q Q M
8a 8a2 8a3 8a4 8b1 8b2 8b3 8c4 8c1 8c2 8c3 8d4	M M M Q Q Q Q Q Q Q Q
9a1 9a2 9a3 9a4 9b1 9b2 9b3 9b3	M M M M Q Q Q
Q - quarterly M - monthly	



POPLAR RIVER POWER STATION ASH LAGOON MONITORING STUDY

PIEZOMETER INSTALLATION SITES SCHEDULE "A" PIEZOMETERS IN TILL

Ground Piezometer Level Monitoring-Ash Lagoon Area - Schedule A-Piezometers in Till Water Elevation (m)

Water Elevation (m)

ezometer	Ref. No.		t Quarter			l Quarter			d Quarte			:h Quarter	
		Jan.	⁵eb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1a	C716			752.48	752.55		752.41	752.30		752.16		751.99	752.08
16	C717			751.98			752.28	752.08		751.87			751.8
1c	C711			751.99			752.26	751.16		752.10			752.1
2a ₁	C712A	751.89	751.89	751.89	752.18	751.B6	752.13	752.29	751.58	751.93	751.88	751.71	751.8
2a ₂	C712B	752.09	752.08	752.36	752.57	752.51	752.45	752.38	752.21	752.21	752.16	752.52	752.1
2a3	C712C	751.59	751.59	751.59	751.81	751.82	751.83	751.81	751.80	751.79	751.80	751.61	751.7
2a4	C712D	Dry	Dry	Dry .	Dry	Dry	Dry	751.00	751.02	751.16	751.21	751.07	751.2
2 b	C718	752.22	752.19	752.34	752.49	752.46	752.43	752.36	751.85	752.22	752.21	751.43	752.1
2c	C719	751.97	751.91	752.27	752.67	752.39	752.28	751.84	751.74	751.62	751.80	751.69	751.8
3 a	C713			752.37	752.47		752.40	752.30		752.15		751.95	752.0
3b	C720			752.30			752,27	752.15		751.94			751.8
3c	C721			752.34			752.27	752.13		751.83			751.8
6a ₁	C763A			753.72	753.72		753.71	753.68		753.74		753.57	753.6
1-2	C763B			Dry	Dry		Dry	Dry		Dry		Dry	Dry
6a3	C763C			752.89			753.27	753.19		753.19*			*
6a4	C763D			754.42			754.29	754.17		753.97			753.8
7a ₁	C729A			752.93	753.12		753.15	753.03		752. 99		752.88	752.9
7a2	C729B			753.25			753.76			753.58			753.3
7a3	C729C			753.49			754.30			753.88			753.5
7a4	C729D			753.68	754.28	- · · · · · · · · · · · · · · · · · · ·	754.47	754.39		753.96		753.87	753.7
C534	C534	757.86	757.74	757.60	757.62	757.57	757.66	757.62	757.28	757.71	757.55	757.46	757.5
8a ₁	C730A	749.59		756.71	752.77	752.24	754.39	755.73	753.65	754.95	754.95		754.8
8a2	C730B	756.70		757.61	756.49	757.75	756.77	757.11	756.98	758.11	758.04	······································	757.8
8a3	C730C	755.00		755.91	754.15	754.64	754.22	755.47	753.91	755.00	755.2 8		755.6
8a4	C730D	755.78		755.82	755.78	755.85	755.78	755.89	755.41	756.06	756.06		755.9
8b ₁	C727A	749.22	750.47	750.89	751.25	751.24	751.34	751.37	749.37	750.67		751.29	751.8
8b2	C727B	751.62	751.69	751.75	751.47	752.28	752.58	752.80	751.49	752.73		753.22	753.5
8b3	C727C	753.956	753.83	753.94	754.66	754.65	754.73	754.75	754.72	754.95		754.67	754.6
8c ₁	C726A	752.55	754.05	754.92	755.10	750.89	753.05	754.01	751.23	753.58		750.22	752.4
8c ₂	C726B	754.91	755.18	755.20	755.18	754.35	755.09	755.19	754.44	755.30		754.72	755.3
8c3	C726C	754.53	754.65	754.74	754.92	754.92	755.02	755.05	755.07	755.27		755.17	755.1
8c4	C726D	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry
8d	C748	753.55	753.61	753.42	753.56	753.80	753.98	75,3.79		754.01			
9a ₁	C764A	752.70		752.91	752.84	752.98	752.98	753.12	753.19	753.12	752.98		753.2
9a2	C764B	752.86		752.79	752.72	752.79	752.72	752.86	753.00	753.07	752.86		753.1
9a ₃	C764C	752.42		752.53	752.42	752.56	752.63	752.70-	752.84	752.77	752.84		752.8
9a4	C764D	752.24		752.17	752.38	752.66	752.24	752.38	752.38	749.00	752.1		752.0
9b ₁	C728A			Dry	Dry		Dry	Dry		Dry		Dry	Dry
9b2	C728B			750.61	750.98		749.85	750.36		749.71		750.19	750.1
9b ₃	C728C			748.76			749.10	758.94		758.56		748.51	Dry
	C728D			Dry			Dry	Dry		Dry		Dry	Dry

NOTE: 8b4 Piezometer was deleted. * pipe bent

GROUNDWATER PIEZOMETER LEVEL MONITORING - ASH LAGOON AREA AND INTERNATIONAL BOUNDARY AREA

SCHEDULE B - PIEZOMETERS IN EMPRESS GRAVEL

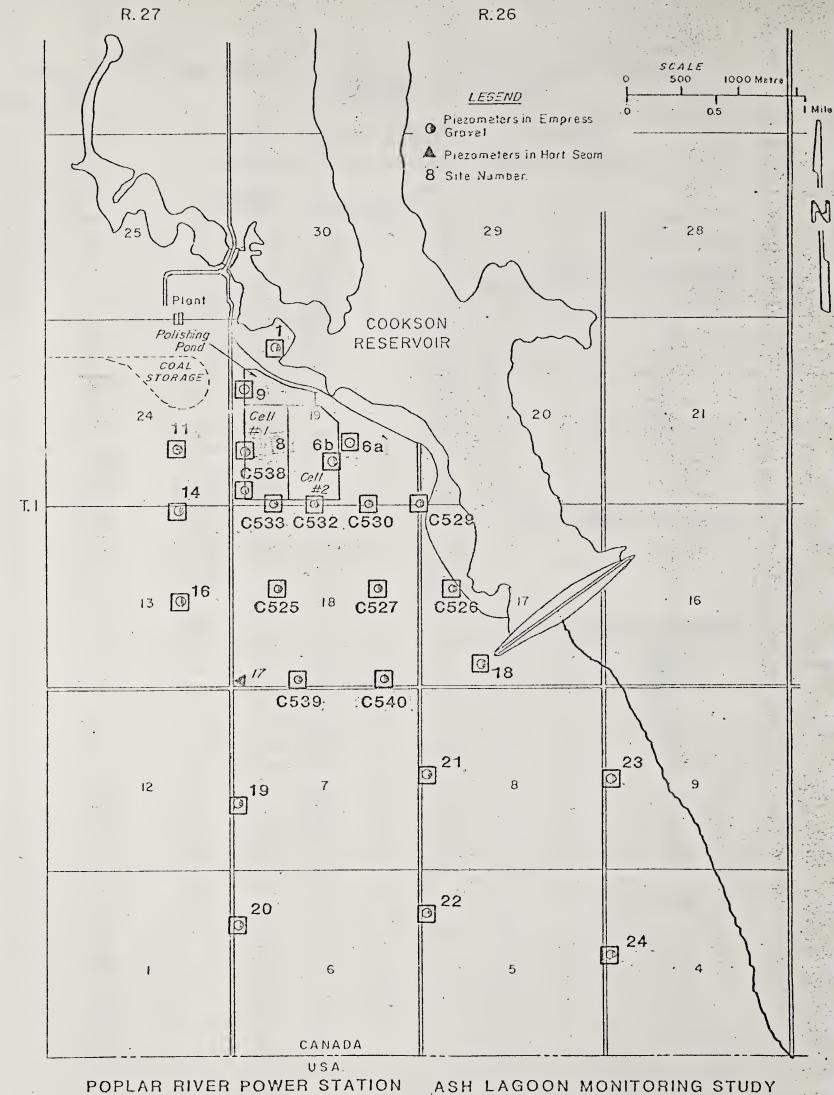
Responsible Agency: Saskatchewan Environment

Frequency of Measurement

Piezometer

<u>Frezometer</u>	
Immediate Ash Lagoon Area	· ·
1 6a 6b C529 C530 C532 C533 C538 8	QQQQQQQQQ
West of Ash Lagoon Area	
11 14 16	. Q Q Q
C525 C526 C527 C539 C540 18 19 20 21 22 23	~~~~~~~~~~~

Q - quarterly



PIEZOMETER INSTALLATION SITES
SCHEDULE "B" PIEZOMETERS IN EMPRESS GRAVEL

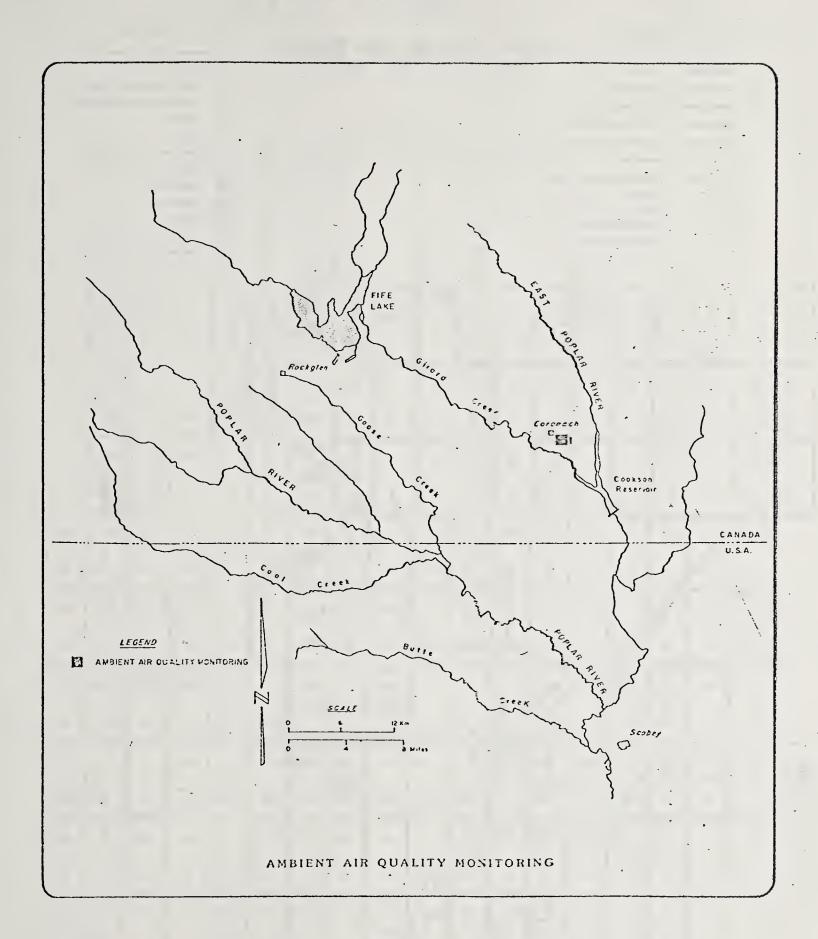
Ground Water Piezometer Level Monitoring-Ash Lagoon Area And International Boundary Area Schedule B-Piezometers in Empress

Water Elevation (m)	tion (m)		1981										
Piezometer	Ref. No.	13	1st Quarter		2nd	2nd Quarter		31	3rd Quarter	L	4t	4th Quarter	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
,	C731			752.23	752.32		752.14	751.99		751.72		751.55	751.68
ба	C763E			751.22	751.25		751.12	751.05		750.78		750.59	750.80
99	C765A								745.93	745.86	745.5		746.06
C529	C529	-		750.41	750.43		750.33	750.28		750.04		749.84	750.02
C530	C530			750.60	750.62		750.51	750.45		750.12			
C532	C532			750.66	750.69		750.58	750.52		750.27		750.10	750.28
C533	C533	751.24	751.22	751.37	751.43	751.40	751.36	751.28	751.23	751.08		750.89	751.08
C538	C538	751.63	751.58	751.63	751.79	751.73	751.73	751.64	751.59	751.53		751.38	751.52
8	C730E	749.25		751.15	751.50	751.36	751.36	751.36	751.46	751.29	750.93		750.93
6	C728E	751.60	751.59	751.87	751.94	751.86	751.78	751.68	751.64	751.43		751.23	751.40
11	C743			751.92			751.94	751.87		751.71			751.74
14	C740			751.67			751.87	751.78		751.73			751.74
16	. 756			Dry			Dry	Dry		Dry			
C525	C525			750.67			750.86	750.77		750.75		ى د	750.69
C526	C526			748,35			748.32	Lost		Damaged			748.08
C527	12527			749,13			749,10	749.07		748,88			743.88
C539	C539		A STATE OF THE PARTY OF THE PAR	750.90			751.07			750.95			750.94
C540	C540			748.80			748.83			748.67			748.58
18	C741			746.47	746.49		746.45	Damaged		747.13		746.48	746.49
19	C735			Dry	Dry		Dry	Dry		Dry		Dry	Dry
20	c736			Plugged	Plugged		Plugged	Plugged		Plugged		Plugged	Plugged
21	C742			746.88	746.95		746.97	746.90		746.84		746.75	746.85
22	C733			746.82	746.86		746.86	743.79		746.75		746.75	746.74
23	C732			742.18	742.22		742.20	742.21		741.56	Provide a state of the state of	742.15	742.01
24	C734			Plugged	742.12		742.15	742.08		742.00		742.05	742.03
							-						

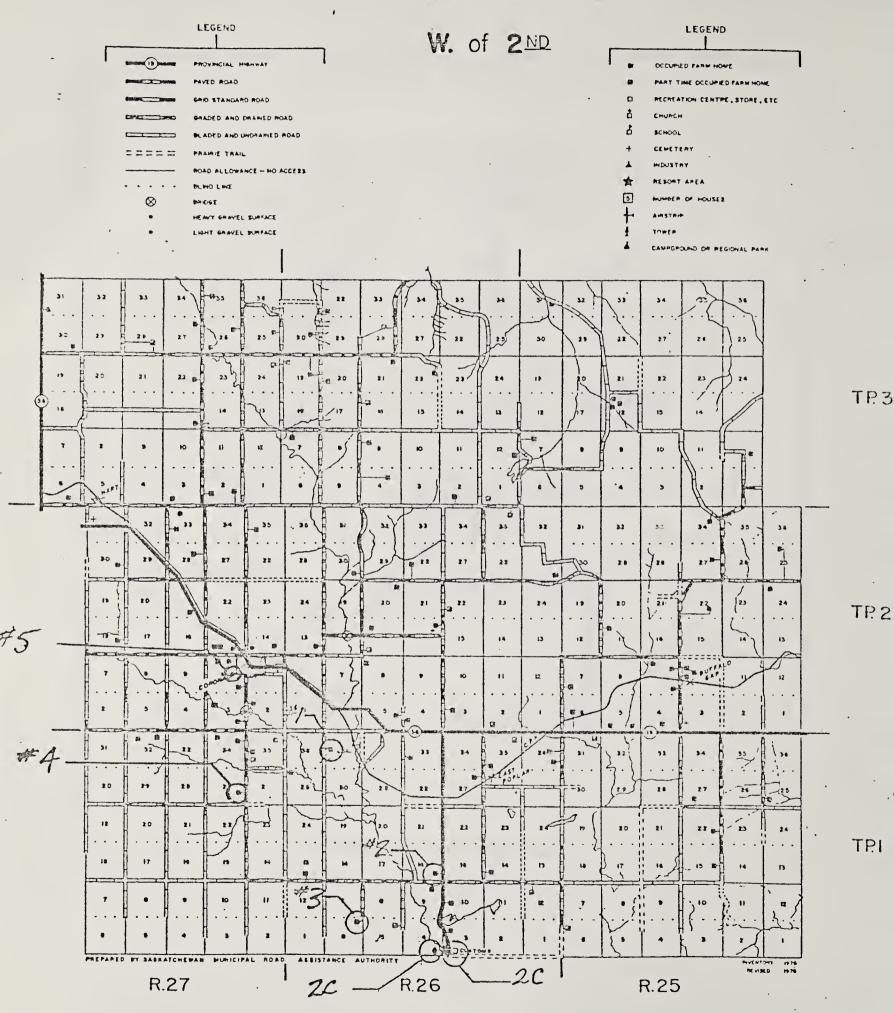
AMBIENT AIR QUALITY MONITORING

Responsible Agency: Saskatchewan Environment

No. on Map	Location	Parameters	Reporting Frequency
1 .	Coronach	Sulphur Dioxide	Continuous monitoring with hourly averages as summary statistics.
		Total suspended Part	24 hour samples on a 6 day cycle.
METHODS			
Sulfur Dioxide		s approved by Saskat ontinuous Permit #	cchewan Environment -
Total Suspended Part.		s approved by Saskat 4-hour sample once/6	tchewan Environment - 5 days



HART BUTTE



#5 - SASKATCHEWAN ENVIRONMENT'S
AIR MONITORING STATION
(Sulphur Dioxide and Suspended Particulates)

4th QUARTER

CORONACH WATER TREATMENT PLANT SUSPENDED PARTICULATE DATA

Oct. 1 231 Oct. 7 43 Oct. 13 116 Oct. 19 44 Oct. 25 Oct. 31 48 Nov. 6 118 Nov. 12 57 Nov. 18 Nov. 24 13 Nov. 30 17	.DATE . 1981	CONCENTRATION ug/m ³
Dec. 6 60 Dec. 12 14 Dec. 18 2 Dec. 24 10 Dec. 30 7	Oct. 1 Oct. 7 Oct. 13 Oct. 19 Oct. 25 Oct. 31 Nov. 6 Nov. 12 Nov. 18 Nov. 24 Nov. 30 Dec. 6 Dec. 12 Dec. 18 Dec. 24	231 43 116 44 48 118 57 13 17 60 14 2 10

ARITHMETIC MEAN	56 ug/m ³
GEOMETRIC MEAN	30 ug/m ³
DOWNTIME	12%

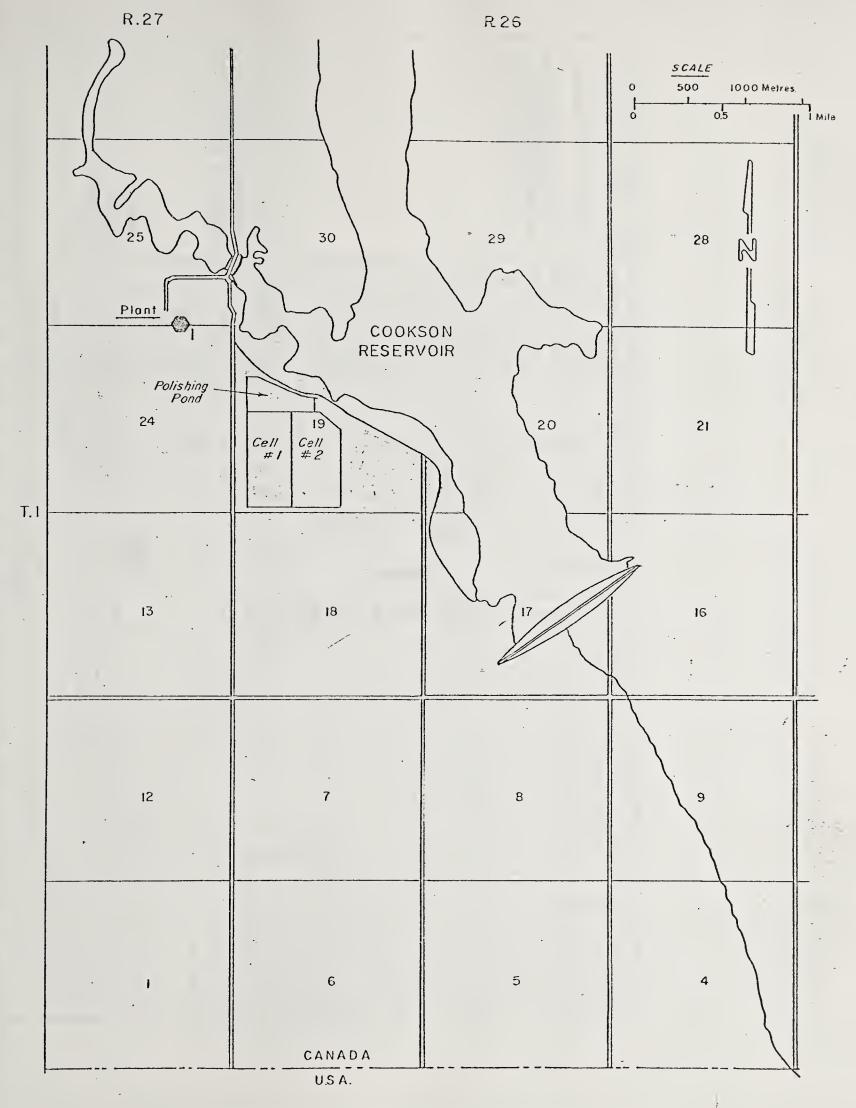
SOURCE EMISSION MONITORING

Responsible Agency: Saskatchewan Environment

No. on Map	Station Location	Parameters	Sampling Frequency
1	At Poplar River Power Plant	Sulfur Dioxide, Nitrogen Dioxide, Opacity.	Continuous reported as Hourly Averages

METHODS

The I to be a second se			
Sulfur Dioxide	As	approved by	Saskatchewan Environment
Nitrogen Dioxide	As	approved by	Saskatchewan Environment
Opacity	As	approved by	Saskatchewan Environment
Oxygen for conversion factors	As	approved by	Saskatchewan Environment



SOURCE EMISSION MONITORING

AMBIENT SO₂ DATA

CORONACH -

WATER TREATMENT PLANT

моитн_Остарег 1981		FILE		- Water Treatment Plant Coronach		WEATHER DATA	· ·			COMMENTS! No data for the		complien ay: 1400 hours.														SASKATCHEWAN	DEPARTMENT OF THE ENVIRONMENT AIR POLLUTION CONTROL BRANCH			MONTHLY WEATHER SOMMAN	2000
	×																			C	О	0	0	C	0	0	0	d	0	0	C
	Max Min	-	-																	C	С	0	0	С		0	0	q	d	0	0
	S. Ma	-	-				-													0			0	С		0	0	9	d	0	0
		00	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 2			0 24		1 6	0 24) 24	24	24	24	124
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	<u>e</u>																			С	C	0	0	0	0	0	0	0	0	0	С
	<u>6</u>					_														.c	c	0	0	0	0	0	0	0	0	0	_
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	5/	_		_		_													/								0	-		-	
		- ~	n	•	*	٣	^	60	6	2	=	2	=	4	ū	S.A.	-	₽	ũ	2	21	22	23	24	2 1	55	2	28	29	8	ē

*** O O O O O O O O O O O O O O O O O O	MONTH November - 1981		i ii	LOCATION	Water Treatment Plant	Coronach	WEATHER DATA:			Chart overly of	November 5/81 @ 1100 hours	New chart installed Nov 5	COMPLED BY:														BASKATCHEWAN	DEPARTMENT OF THE ENVIRONMENT AIR POLLUTION CONTROL BRANCH		MONTHLY WEATHER SUMMARY		DHM. DATE FIGURE	CK'D PLAH NO.
	HOURS	02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 1Hrs MaxMin	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	p 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

	-		700	Water Treatment Coronach	WEATHER DATA:				30 4	December 1st 1981 @ 0900		COMPILED BY:														SASKATCHEWAN	AIR POLLUTION CONTROL BRANCH		MONTHLY WEATHER SUMMARY	****	0 0 4 1 6	CN'D PLAN NO.
	ax Min			0 0	1	0	0	0	0	1	0	0	d	0	0		d	0	0	0	0	0	0	0	0	0	0	0	0	0 (0 0	
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-	<u></u>	+	+	d c		d	9	7	+	+	+		d	1	0	<u>d</u>		\top	0	_	0	0	0		1	+	0	0 0		+	0	_
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-	5 - 6	+	- -			0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	1	0	0	0 0	0	+	0	0	-
-	4	+	+	0 0			0	0	0	0	0	0	9	0	0	9	9	7	0	0	0	0	0			\neg	0		0	\top	0	
	2	0	0	0 0	d	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	9	0 0	d	9	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	1	0	-	0	0		0	0	-
	= 0		0	0 0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0 0		0	0 0		0	0	
	60	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	
	80	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o	٥	0	9	0	0	0	
	6	0			0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		-	0	-	1000	0			0		0	
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	04	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	20				0	├	 	0	0 (0 (0	0 0		0 0	0 0	0		0 0		0 0		0 0		_	0	0 0	0 0	0	\neg	0	
	ō		0 2	0 0	0	0	0 4	9 O	0 6	0		0 21	13	<u> </u>	5		<u>1</u>		61		23) 22		4	1	3.0	27 (28	62	30	Ē	ı×

IN-STACK SO₂ DATA

Foplar River Fower Station.

All summaries for those

months when the plant

is not operating or the

monitoring equipment is

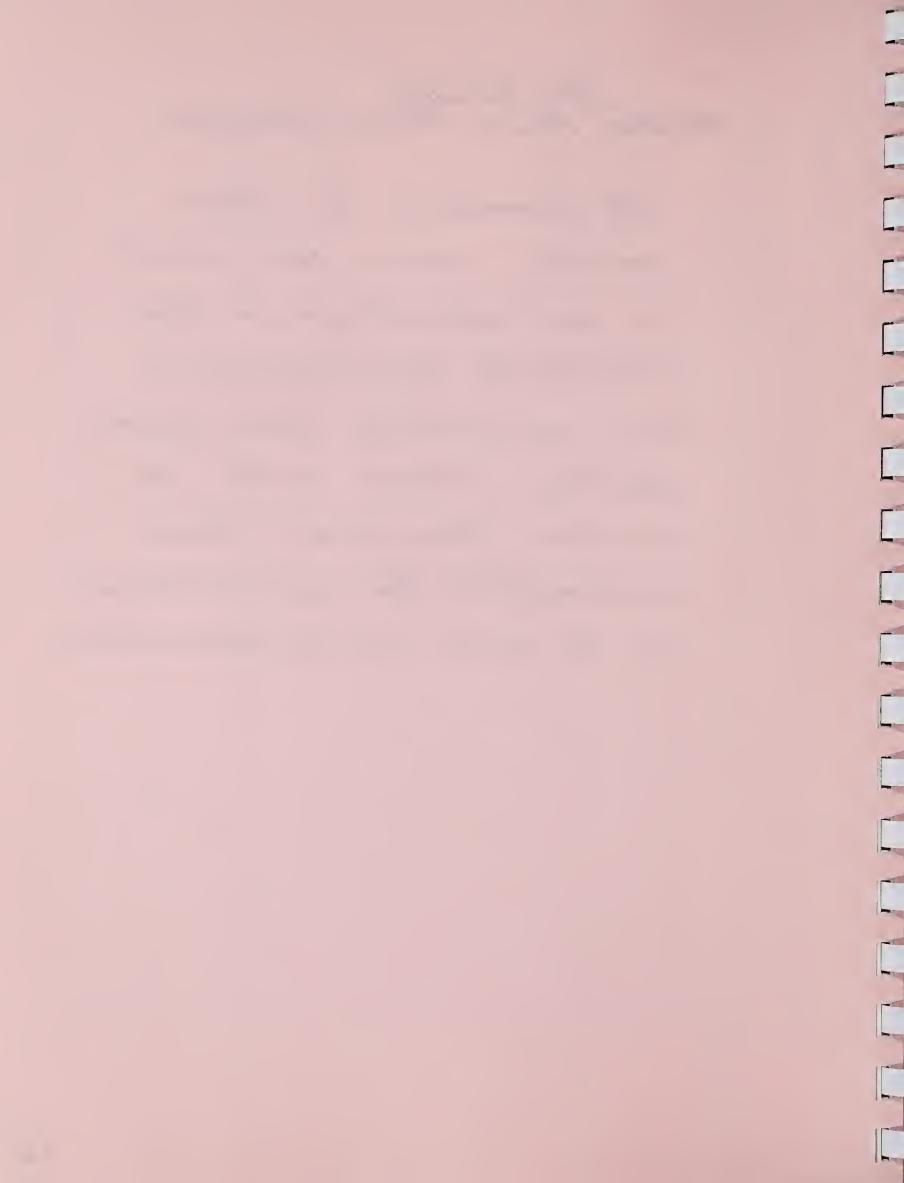
not operating have been

deleted. Flease refer to

earlier Canadian Data

exchanges for explanations

as to lack of information.



Legend:

TABLE 1

AIR QUALITY MONTHEY SUMMARY FOR 1981-April Stack Sulphur Dioxide (mg/m³, 3% 0,)

16							٠						ING	TASE	40	LON	ZIKN		-								
15				•									DNI	ERAT.	ao :	LON	TIKU										
14													. DNI	ERAT	40 .	lon	LIKI										
13		×	×	×	×	×	×	×	×	×	×	×	* *	< ×	×	×	× ×	×	×	×	×	ı	ı	×		×	V/N
12	1	1570	1690	1770	1770	1770	1730	1570	1.530	1610	1490	1300	1300	< ×	×	×	××	×	×	×	×	×	×	1810) i ;	1770	×
8 9 10 11 12		1	1	t	ı	t	t	ı	i	ı	ı	1	1 1	1 1	1	1	1 I	i	688	91.4	985	1153	1370	1490		1370	N/N
10													ING	TASE	đ0 .	LON	IIKN						•				
6													INC	EKYT.	. O.	LON	TIKU										
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ы						-		•			ŧ						IINN										
62													ENG	ITARE	0.61	ION	IIKA										
7													ואפ	ITAAB	OPI	ION	IIKN								nc	age	
DATE	Hourly Averages	0100	0000	0200	0300	0040	0.000	0,200	0000	0000	1999	1000	1200	1300	1500	1600	1700	0001	2000	2100	2200	2300	2400		Peak Concentration	Max. Hourly Average	24 Hour Average

TABLE 1

POPLAR RIVER POWER STATION AIR QUALITY MONTHLY SUMMANY FOR 1981-May Stack Sulphur Dioxide (mg/m³, 3% 0₂)

DATE			•					:		ï					
TIME	17	18	10	00	2.1	22	23	24	25	97	27	28	29	30	31
Hourly Averages 0100		1	3303	2711	2802	2090					. 26.73				
0200		i	3281	2752	2832	2360				1	2614				
0320		. 1	3245	2590	2827	2360				ı	261.5				
0400		1	3047	2560	2930	2300				1	7697				
0200		ł	2993	2520	2757	2300				1	2647				
0090		ı	3780	2608	3009	2300				ı	2560				
0200			2880	2664	2959	2300				ì	2528				
0000	5	ı	2823	2499	2678	2280	đ	đ	Ð	ı	2613	D)	Ð	1G	1C
0300	LINC	1	2826	2366	2795	2360	KII	NIL	NII	ł	2754	II	ZII.	(II)	KIIV
1000	ERAT	i	2664	2469	2801	2360	EKY.	EKV	EEV	ī	2814	ЕКЪ	EEV	EBY	EB∀
1100	05.I	ŧ	2780	2658	2778	2360	0b	O.	OB	ı	2765	OE	OE	OF.	. OE
1200	TON	1	2516	2743	2970	2320	TON	TON		ı	2716	LON	LON	LON	LON
1300	I II	ı	2424	2710	2824	2300	li	li		ı	2688	TI	TI	III	LI
1400	מאו	ł	2484	2868	2851	2360	מא	NU		2778	7997	KU	ĸn	χŪ	ZU
1500		3858	2433	2804	2940	2300			•	2325	271.4				
1600		4314	2409	2777	2606	2300			•	2585	2755				
1700		3411	2461	2820	2522	i				2344	2740				
1800		3604	2461	2784	2574	ì				2656	1.869				
1300		3560	2567	2838	2484	i				2487	ı				
2000		3501	2513	7887	2592	ı			٠	2634	i				
2100		3326	2546	2961	2333	i				2681	ı				
2200		3631	2636	291.2	2837	į				2776	ŧ				
2300		4014	2510	2850	2387	ı				2652	i				
2400		3700	2610	2825	2090	ı				2660	ı				
Peak Concentration		4350	3802	4241	3392	3620				2802	2853				
Nax. Howily Average		4314	3780	2961	3009	2360				2778	281.4				
24 liour Average		V/N	2758	2716	2716	N/A				N/A	N/N				•
Percent Downtime = 59	29%														

Legend:
- Plant not running
x Stack gas eystem down

TABLE III

POPLAR RIVER POWER STATION

AIR QUALITY MONTHLY SUMMARY FOR JUNE, 1981

STACK OPACITY (%)

|--|

Legend:
- Plant not running
x Stack gas system down

Percent Downtime = 4%

- Plant not running x Stack gas system down

Legend:

20/30 14 2.0 0 0 0 O 01/5 G8 1.0 aslospis 0 Ö 0 0 000 0 <u>C</u> 1500 C 22 0 1, 0 0 0 030 0 S \mathcal{O} 0 0 0 2 0 B Ġ B Ø Ø Ø Ø Q B Ø Ø 0 0 ts. 0 0 00 0 0 0 0 9 15/5 0 <u>o</u> 0 0 0 0 9 0 100 01/01 0 0 0 0 \mathcal{C} 0 0 0 Ń Ń 01/0 0 0 0 0 C 0 0 Ó 0 (v) ઇ 0 30 O 0 C <u>6</u> 0 0 O 0 10/10/ C 0 0 2 Q 0 C 01/15 ارة ال 0 <u></u> 0 20/2 0 C 0 . <u>1.</u> S 0 0707 07/01/01/510 0 3 0 0 C 0 Õ 0 0 نا 0 010101015 0 0 0 1,015,01015 0 HOURS C 0.7 0 0.7 0.0 Ń \overline{c} 0 C 0 0 0 0 0101010 S 0 $\frac{\omega}{\phi}$ 0 0 01/01/ 0 0 0 0 Į. Ö 0.7 0.5 01510 0 0 0 O Sis بر 0 0 0 0 $\frac{2}{5}$ 0 S 0 C 0 0 0 0 B Ø D Ø (E) 0 B C Ø Ø TO 0 Ċ 07/50 (2) 0 0 0 0 0 0 0 07 07 07 0 05/21/5/5/50/50 0 0 0 0 0 0 0 9 0 Ń 0 0 ဖ 0 0 O 0 T) 75 Ċ. Ö 0 0 の一次につ 0 O γ 0 0 0 jū ٠ الح ال 01 5/10/0/5 O O 5.0.15.0 0800 0 O 01/07 0 0 C 0 O M 0 0 0 DAYS Ċ 0 m 4 0 <u>m</u> 4 $\overline{\Omega}$ 20 Ω Ω IO. Ó $\boldsymbol{\omega}$ 22 25 <u>0</u> 7 <u>co</u> 30 28 27 <u>ത</u> 2 yout wiselianson Ecoreter Theww Aug 21 to 1149 31 chart dilled Lam UNITS: PPhm POLLUTANT! MONTH, YEAR August PROVINCIAL COMMENTS OMMERCIAL RESIDENTIA NDUSTRIAL LOCATION NAPS.

33				
MONTH, YEAR	DAYS	S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	20 21 22 23 24	HRS MAXMIN.
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ater	2			
	100			0
Lornach, 295K.	4 u			0
PROVINCIAL	7 6			0
AP'S	p N			0
	- α			0
POLLUTANT: 302	0			0
	0			00
COMMENTS:	= !			0
Jacy 1- July 21	7 2			0
Coch de molo as	5 2			0
down dustry				0
N.S. Comison.	0 0			
	0 1			0
Sucy 30	_ 0			0
Rocercay In Conder	0 0		<u> </u>	0
Payasten - Said	500			
	2 2			0
	1	1,0,5,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	3.0 20 2.0	CE 1
		.5 40 0 0 0 10 0 10 0 0 0 0 0 0 0 0 0 0 0	10.10.10.10	24 2,0 0 0 6 12 12 12 12 12 12 12 12 12 12 12 12 12
		0 0 0%	1. 0 - S S.	
	-	15 10 10 10 10 10 0 30 30 0 0 0 0 0 0 0 0	07/2/2	330
	27 52	01/01/01/01/01/000000000000000000000000	0.15.5.2.	0.7
		000000000000000000000000000000000000000		1.5
COMMERCIAL		000000000000000000000000000000000000000	0005.75	ئ
INDIISTRIAI	30 05	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	241.50 D.
	31./			0000
	1	the state of the s		くとして

Percent downtime = $3Z$ %	in the second				Stac	Stack Sulphur Dioxi		de (mg/m ³ ,	3% 02)				Stack	* Stack gas system down	an down		
10.6	स्त	2	e	7	S	9	7	∞	6	10	11	12	* burning oil: 13	g oil: 14	15	. 16	,
Hourly Averages.		1															
0100	I	1		1	. 1	ı	1	ı	ı	ı	×	1571	. ×	×	×	×	
0500	ı	1	ı	ı	ı	1	1	1	ı	ı	×	1532	×	×	×	×	
0300		I	ı	ı	I	ı	ı	1	ı	ı	×	1532	×	×	×	×	
6,00	1	1	1	ı	ı	ı	ı	ı	ı	×	×	1610	×	×	×	×	
. 0050	1	ı	ı	ı	Γ	ı	ı	1	ı	×	1571	1610	×	×	×	×	
0090	1	ı	ı	İ	f	1	1	1	ı	×	1492	1610	×	×	×	×	
0700	ı	ı	1	1	1	ı	ı	1	1	×	1532	1610	×	×	×	×	
. 0090	ı	ı	İ	1	ï	1	1	ı	ı	×	1610	.×	×	×	×	×	
0360	1	ţ	1	ı	1	1	1	ı	ı	×	1649	×	×	×	×	×	
1000	1	1	ı	1	. 1	1	I	I	ı	×	1649	×	×	×	×	×	
1100	1	1	ı	1	ı	1	ı	ı	. 1	×	1649	×	×	×	×	×	
1200	I	ı	ı	i	ı	1	ı	ı	ı	. ×	1099	×	×	×	×	×	
1300	ı	ı	1	1	ı	ı	1	'	ı	×	1121	*	*	>	>	>	
1700	ı	ı	ı	1	ı	'	ı	ı	ı	: >	1178	< >	< >	< >	< ;	< ;	
1500	ı	ı	ı	1	-1	ı	ı	ı	ı	< ×	1257	< >	< >	< >	× ;	× ;	
1600	ı	ı	ı	ı	1	1	ı		ı	: ×	1374	1649	< >	< >	< >	< ;	
1700	1	1	1	1	i	1		1	1	: >	1/,52	1/42	< ;	< :	< :	<	
1800	ı	ı	1	1	1	1	1		: 1	< >	1616	17,00	× ;	× ;	× :	× :	
. 1900	ı	ı	1	Í	'.	ı	1	!	. 1	: ×	1492	1414	· ×	< ×	< >	× >	
2000	1	1	ı	ı	1	1	ı	. 1	ı	×	1610	1414	×	: ×	: ×	< ×	
2100	ı	ı	1	ı	i	ı	1	ı	ı	×	1649	1374	×	: ×	: ×	: >	
2200	1	1	ı	1	ı	ı		ı	ı	×	1610	1374	: ×	: ×	: ×	< >	
2300	ı	1	1	ı	ı	ı	ı	ı	ı	×	1610	1374	×	: ×	: ×	< ×	
5700 × 8 9	ı	ı	ı	1	. 1	1	ı	ı	ı	×	1620	1374	×	×	×	: ×	•
Peak Concentration	ı	ı	ı	1	ı	ı	1	ı	I	×	ı	1	×	×	×	×	
Max. Hourly Average	ı	, I	Ĭ	1	ı	ı	ı	ı	ı	×	ı	ı	×	×	×	/ ×	
24 Hour Average	ı	1	1	1	ı	1	ı	ı	ı	×	1	ı	×	×	×	×	

. ercent Downtime 32%				AIR	QUALITY Stack	AIR QUALITY MONINLY SUMMAT 'FOR SEPTEMBER 1981 Stack Sulphur Dioxide (mg/m³, 3% 05)	Surfar .	THIS NO.1.	3% 0×)	1981			-Plant n x Stack g	not running gas system	ng n down	
·	17.		19,	50	21.	22.	23.	24.:	25	26	27	* 80	. Burning 29	* Burning off.		
Hourly Averages																
	×	2435	3259*	3377	7722	2159	ð	2552	2553	2513	2332	. 2356	2419	2419		
. 0200	×	2513	3338*	3377	7722	2159	Ö	2631	2483	2356	2289	2356	5449	2398		
යුග	×	2592	33384	3377	2199	2159	ŧ	2827	2475	2356	2301	2356	2392	2371		
87	×	2670	33384	3377	2199	2317	ó	2749	2423	2356	2283	2356	2407	2380		
0500	×	2749	3338*	3377	2160	2317	B	2670	2529	2356	2239	2356	, 2386	2386		
0500	×	2827	3338*	3377	2160	2356	8	2552	2458	2356	2229	2356	2361	2345		
070	×	2945	3299%	3377	2121	2356	8	2513	2382	2356	2261	2356	2353	2447		
	×	3063	3259*	3377	2042	2356	B	2435	2395	2317	2344	2356	2403	2435		
050	×	3063	3220*	3377	2042	2278	É	2592	2441	2317	2220	7722	2408	2329		
100	×	3142	3220*	3416	1964	2278	1963*	2670	2610	2356	2296	ga1	750	2442		
1180	×	3220	3181*	3456	1964	2278	1767	2749	2354	2437	2384	Ga1	1205	2594		
1200	×	3338	3534₺	3927	2042	2278	1963	2670	2208	2356	2471	E E	2430	2468		
1300	×	3534	3534№	3927	2042	2278	1963	2670	2292	2356	2491	Ca1	2482	2447		
1400	×	3495	3495*	×	2121	2356	2356	2749	2304	2356	2459	g1	2509	2471		
1580	×	3338	3495*	×	2121	2356	2356	2670	2288	2356	2431	Ca1	2504	2471		
1600	×	3338	35340₺	×	2238	2356	2356	2552	2281	2400	2412	· ×	2511	2465		
. 1738	×	3338	3495*	2435	2238	2356	2356	2552	2314	2400	2404	×	2477	2461		
1800	×	3338	2456*	2435	2121	2356	. 2356	2592	2398	2400	2403	×	2448	2478		
1900	2278	3338	3495	2435	2042	2356	2159	2552	2436	2435	2383	×	2487	2549		
2000	2278	3338	3534	2278	2121	2356	2199	2513	2385	2435	2446	×	2466	2519		
2100	2278	×	3534	2199	2042	2356	2356	2435	2382	2278	. 2540	2552	2418	2389		
2200	2317	×	3613	2159	2042	2356	2317	2470	2575	2278	. 9977	2552	5464	2365		
2300	2356	×	3299	2199	, 2159	B	2435	2474	2678	2356	2391	2513	2425	2331		
2400	2395	3259*	3299	2278	2042	٥ پ	2356	2474	2678	2356	2391	2513	2425	2331		
Peak Concentration	×	×	3927	×	2984	2877	2557	3117	2960	3338	3500	×	2748	2748		
Mix. bourly Average	×	* [3613	×	2277	2356	1386	2749	2678	2513	2540	ــا . ⁻ ۲- × ۲-	2511	2594		

10. V.			8			1	5	100; 1. 1VIO		D		3 6		3	1	
					Stack Su	lphur Di	Stack Sulphur Dioxide (mg/m³,	3/113, 3% 02)	02)			S X 2	x Stack gas	syste		Ę
	- 1	61	ന	< t	יט	9	7	ω	6	10	r-i r-i	1 답	13 14	3	15	16
Segement Army															İ	
, ,	2338	2608	×	2944	2740	7507	3436	2516	2569	2153	24.04	2355	233	5499	25.	2073
() ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	2318	2539	×	2783	2805	4112	3435	2484 2	2527	2274	27	7527	230	2592	293	2115
	2369	2377	3024	2901	2762	4093	4037	2426 2	2450	2272	2343	2293	204	2108	×	2117
j	2392	2504	2906	2862	2797	3870	4112	2413 2	24416	2210	2395	2296	. 1447	2407	×	2108
**	2366	2524	2827	37774	2765	3296	4093	2408 2	2448	2246	2361	2217	1758	2278	×	2085
,	2354	2576	ж	2705	2733	3068	3870	2415 2	2465	2160	2327	2233	1877	2358	×	2008
200	2467	2636	2827	2705	2706	2943	3296	2421 2	2493	2185	2315	2196	1546	2866	×	2034
	2577	2631	×	2744	2785	2743	3068	2394 2	2424	2195	2348	2191	1794	3116	×	2030
SSO	2524	2602	2631	2783	2791	2521	2943	2427 2	2397	2151	2354	2224	1613	3431	×	1990
1000	2604	2529	2749	2384	2671	176	1943	2511 2	2465	2153	2327	2228	1883	2328	2431	2095
S5 1	089	2007	2670	2749	1791	1859	2466	2547	2519	2302	2315	2174	1349	4712	2431	2127
) (\}.	367	×	2670	2782	1827	2525	2412	2597	2578	2378	2366	2180	1992	3143	2362	2200
	454	. ×	2626	2547	2213	2854	Delete	2638 2	2567	2387	2314	2139	2229	3001	2314	2139
	1211	×	2670	2594	2232	3289	Delete	2602	2617	2453	2333	2094	2289	688	2208	2019
-	2401	×	2744	2624	2475	3500	Delete	2670 2	26/14;	2401	2330	21.59	2538	. 889	2175	2225
5	2545	×	2744	2541	3820	3495	Delete	2645	2457	2276	2294	2140	2374	2785	2207	2386
0	2536	×	2783	2556	6004	37776	Delete	2620 2	2427	2338	2304	2149	2772	108	2133	2374
>	2550	×	2783	2630	4180	3410	2476	2542	2426	2332	2309	2254	2964	562	2175	2414
	2549	×	2783	2753	, 4313	3426	2519	2546	2425	2292	2259	2232	2658	066	2228	2384
7	2561	×	2744	2837	4251	## #1	2503	2613	244.2	2305	2265	2185	2203	1412	2159	2383
2100	2547	×	2744	2664	3573	3616	2520	2580 2	24.3.1	2298	2391	2103	2512	2381	2165	2385
2200 ·	2477	×	2705	2584	3592	5581	2593	2546	2250	2339	2351	2078	2520	2496	2153	2338
230	2461	×	2666	2645	3430	3198	2619	2589	2354	2416	2334	1615	1823	2723	2109	2327
91 公元	2461	×	2705	2645	3436	3198	2619	2589	2334	2416	2334,	1615	1823	2723	2109	2327
Peak Concentration	2827	1	ł	3062	4313	4112	1	2827	3023	2592	2592	3926	3926	3926	1	3024
Him. Hourly Average	2604	1	ı	2901	4313	7003	1	2670	2578	2416	2404	2355	5964	4712	1	2414
24 Nour Average	2169	t	ı	2588	3046	3014	1	2531 2	2466	2289	2335	2151	1864	2266	1	. 2195

9				AIR	AIR QUALLIT NOWINE Stack Sulphur		Y SUNY	7 FOR OCT (mg/m³, 3	CCIONER 1981	181		' ^∑	-Plant no	oc cumin s system	- Plant not rumning x Stack gas system down M. Mainfenance on stack watem
2	17.	13	19`	20	21	22	23.	24':	25	26	27	: 58	29	30	31
,	2294	2175	2358	2370	×	×	×	2239	2146	2843	3047	×	Σ	M	2147
	2279	2169	2271	2317	×	×	×	223	2071	2843	3620	E	Σ	Zi	2137
()	2193	2103	2251	2254	×	×	×	2226	2002	2841	3039	×	Ħ	Ξ	2280
)	2199	2130	2232	2254	×	×	×	2203	3111	2953	2387	M	Z	্ স্ল	2355
	2216	2069	2180	2255	×	×	×	2183	1133	2859	2700	Σ	Z	Z	2385
03	2176	2036	2175	2215	×	×	54	2152	×	2903	2595	Z	Z	Z.	2441
8	2106	2015	2175	2141	ж	×	×	2169	×	2934	7092	걾	zi	×	2317
8	2162	1647	2169	2031	×	×	×	2105	×	2942	2631	Zi	Second Manager	Σ	2270
300	2180	1979	2171	2059	×	×	24	2163	×	2748	2107	四四	互	Z	2288
200	2209	1954	1997	0007	×	×	×	2216	×	2489	2284,	Z	Z	M	2339
30	2213	2150	2069	5049	×	×	×	2056	×	2528	2238	四	Σ	×	2353
500	2272	2215	2150	2132	×	×	×	2048	×	2498	2301	M	Z I.	2117	2349
() ()	2320	2225	2074	2116	×	×	×	2042	×	2520	2272	M	Z	2073	2420
7.00	2375	2316	2192	2127	×	×	1223	2033	1203	2516	2382	Z	E	2299 -	2438
\$50	2118	2378	2260	1859	×	×	2176	1983	1176	3121	2221	M	M	2339	2446
909	2162	2412	2286	1405	×	×	1614	1999	1624	3745	2103	Z	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2225	2296
3	2231	2430	2286	1164	×	×	2120	2013	2618	3342	¤	E	K	2263	2442
003	2241	2438	2303	1120	×	×	2134	2016	2664	2616	囚	, 国	Ħ	2175	2363
() A	2278	. 2443	2333	965	×'′	×	2128	2025	2755	2612	浡	M	X.	2109	2389
	2180	2441	2335	969	×	×	2162	2016	2823	2577	Z	Z	Ħ	2119	2390
	2155	2398	2327	1013	×	×	2207	1993	2762	2586	_Z	×	M	2152	2351
	2171	2340	2330	1148	×	×	. 2256	1987	2756	2950	囚	M	Z	2103	2333
3)	2172	2315	2350	1215	·×	×	2234	2012	2790	2813	凶	×	M	2068	2365
0	2172	2315	2350	1215	×	×	2234	2012	2790	2813	Æ	Ħ	Z	2068	2365
ach Concentration	3102	3063	2788	3534	i	ŧ	ı	3102	1	3927	1	i	ī	1	1

in thursty Average

		F		2 1	0.	T. IVE	R,	ST		# C2 F.	" =		Boue		775	
rercent Lowntime = 23.6	%				Stack	Stack Sulphur Dioxide (ma	Dioxide	,/m3	3% 02)			. *	* Stack gas	Sy	stem down	٠
DATE						For Nov	ember	• /	772					•		٠
TINE	vd.	2	က	4	۲O	9	7	co	6	10	Ħ	12	ដ	14	15	16
Hourly Averages.																
0100	2389	5326	2256	2232	.2163	2023	1625		1117	5269	5269	2233	2410	ı	ı	
0200	2360	2301	2232	2285	2179	5029	1	i	993	5286	2219	1722	2437	ı	ı	ı
0300	2321	2279	2314	2303	2173	2014	•		1109	2268	2231	2206	2421	ı	ı	ı
007/0	2325	2304	2324	2295	2174	2031	ı		1217	2279	2259	2224	2324	•	ı	ı
0500	2346	2333	2325	2265	2177	2103	· 1	1	1184	2251	2244	2259	2386			
0090	2373	2326	2304	2245	2158	2098	3	ŧ	1123	2218	2238	2274	2397		ı	ı
0700	2380	2311	2309	2250	2163	5089	ı	ī	1556	2164	2268	2330	2388	,)* 	ť
. 0080	2422	. 2264	2255	2226	2150	2072	ı	ı	2329	2172	2268	2301	2335		ı	
0060	2393	2264	2262	2217	2079.	2077	î	ı	2498	2187	2258	2258	7722	•	ı	
1000	2405	2270	1312	2186	2020	2063	1	ı	2513	2206	2267	1903	2289	1	ı	ı
. 1100	2420	2205	325	2064	2189	2100	ı	i	2573	2217	2254	2234	2327	ı	ı	ı
1200	2400	5202	490	2123	2229	2190	ı	i	1305	2247	2250	2316	2305	i	ı	ı
1300	5396	2224	1445	2197	2297	2193	ı	ı	2199	2261	2256	2367	2317	ı	ı	ı
1400	1310	2231	2287	2219	2336	2236	ı	ı	2282	2318	2289	2431	2315	1	ı	ı
1500	2437	2331	2330	2020	2330	2223	1	1	2317	2314	2314	2342	1		t	ŧ
1600	2421	1835	2284	1970	2226	2160	1	708	2260	2183	2166	2259	1	1	ı	ı
1700	2324	2213	2261	2183	2202	5289		820	2396	2297	2318	2374	ı	ı	t	ı
1800	2386	2303	2342	2211	2158	2209	ž.	[5]	2364	2315	2360	2378	1	8		
1900	2397	2283	2354	2217	2132	2233	ı	1037	2368	2303	2345	2368	•	•		
2000	3488	2261	2303	2217	5006	2238	ŀ	1053	2337	2278	2351	2367	ı	ı		1
2100	2335	2258	2313	2177	-2114	2231	i	743	2360	2270	2315	2348	ı	ı	1	ı
2200	2277	2235	2315	2146	1906	2200	ı	945	2323	2256	2532	2351	ı	ı	ı	ı
2300	2289	2237	2287	2153	2084	2193	•	975	2272	2277	2296	2355	ı	•	ı	1
93	2319	2237	2287	2153	2084	2193	1	975	2272	2277	. 5252	2355	1	ı	i	1
.Peak Concentration	2640	2560	2560	2440	2480	2480	ı		3480	3480	3480	3360				
Max. Hourly Average	2437	2333	2354	2303	2336	5288	ı	ı	2573	2318	2360	2431				
. 24 Hour Average	2408	2252	2066	2190	2159	2062	1	1	1969	2255	2276	2299				

1 ann7				Ą	AIR CUALITY NONTHLY SUMMARY FOR	NOW IN	LIK POWILK Y SUNMARY	SIMITON FOR				3 1	urgeno: - Plant n	not rumn	in:	
4					Stack	Sulphur	Dioxide		3% 04)			×	x Stack B	gns syst	system down	
DATE	!					for N	overber .		,7_				•			
日本工	17.	18	19	20	21	22.	23	24:	25	56	27	28	53	8	<u></u>	
Nourly Averages																
0100	ı	1	ı	ı	ı	1	ı	ı	ı	ı	×	×	×	×		
0200		ı	ı	I	í		ı	1	1	ı	×	×	×	×		
0300	ı	ı	I	. 1	ı	ı	I	I	I	ı	×	×	×	×		
04.00	ś	ı	ı	1	ı	I	ı	ı	ı	1	×	×	×	×		
0500	ı	ı	ı	ı	I	ı	-	ı	ı	ı	×	×	×	×		
0090	ı	1	I	1	I	ı	ı	ı	ı		×	×	×	×		
0700	ı	ı	ı	,	I	1	1	ı		i	×	×	×	×	r	
0080.	ž	1	ı	ŀ	1	ı	ı	ı	1	ı	×	×	×	×		
0060	ı	'n	ı	1	ı	ı	1	ı	ı	1	×	×	×	×		
1000	1	I	1	ı	ı	ı	ī	ı	ı	ı	×	×	×	×		
1100	1	ı	I	ı	1	ı	l	,	ı	1	×	×	×	×		
1200	,	ı	1	ı		ı	ı	1	1	1	×	×	×	×		
1300	ı	,	. 1	ı	ì	ı	ı	ı	ı	I	×	×	×	×		
1400	ı	ı	ı	ı	ı	ı	ı			ı	×	×	×	2727		
1500	ı		1	1 -	ı	ı	ı	ı	ı	ı	×	×	×	2895		
1600	1	ı	ı	1	1	1	ı	I	I	ı	×	×	×	2910		
1700	1	,	1	1		ı	1	1	1	1	×	×	×	2932		
1800	,	ı	1	1	1	1	1	,	ı	1	×	×	×	2919		
1900	ı	1	1	ı	,	ı	1	ı	I	1	×	×	×	1901		
5000	1	1	ı		1		I	ı	1	1	×	×	×	2815		
2100	1	1	1	1	,¹	1	ı	1	1	1	- ×	×	×	2594		
2200	ı	ı	1	;	ı	ı	1	4	1	1.	×	×	×	2613		
2300	1	1	1	,	1	,	1	1	,		×	×	×	2768		
2400	1	1	1	1	1	1	ı	ı	1	I	×	×	×	2962		
Peak Concentration	1	1	1	1	ı	1	ı	1	1	1	1	t	1	1		
Max. Hourly Average	1	31	1	ŧ	1	. 1	1	ı	1	1	1	3		3		

been something to the second				TI LITE	N AI	VER LY S	IR S RY B		**************************************		4		larkdt	r.		
.)					Stack Sulphur Dioxide	lphur Di	oxide (n	18/11 ³ , 3%	, 02)				Stack gas Compúter p	system problem	. mop	
	₩-1	2	ന	4	Ŋ	9	7	8	σ	10	11	12	13	14	15	16
Hearly Averages																
2/3	. 3035	2847	2597	. 522	2373	2335	2223	2152	2320	1958	2115	. 9661	1744	×	×	×
(7)	3075	2837	2719	2532	2329	2334	2233	2220	2240	2007	2105	2033	1743	×	×	×
0 00	3003	2875	2772	2614	2242	2336	2229	2100	2200 -	2047	2109	5002	1802	×	×	×
925	3038	2872	2896	2616	2281	2377	2246	202	2120	5019	2129	2113	1780	×	×	×
0050	3057	2891	3003	2637	2340	2390	2256	2068	2080	2022	2109	2082	1695	×	×	×
033	3034	5869	2845	2693	2374	2302	2306	2078	2040	. 2068	2110	2039	1668	×	×	×
3	3001	2913	2832	2560	2382	2295	2266.	2072	2000	1992	2142	2005	1653	×	×	×
ලදා	2960	2891	2849	2567	2464	2300	2199	2110	2000	1978	2129	1939	1742	×	×	×
0030	U	2812.	2765	2605	2579	2336	2181	2134	2000	2006	2151	2013	1799	×	×	×
1000	2916	2738	2710	2532	2589	2377	2230	2155	1838	2023	2174	2066	1860	×	×	×
1100	2920	2821	2773	2576	2679	2435	2137	2186	1692	2052	2209	. 2110	1910	×	×	×
128	2908	2363	2834	2400	2615	2457	2165	2169	388	2035	2247	1836	1860	×	×	×
1300	2900	1954	2860	2506	2565	2440	2185	2320	ı	2119	2219	1833	1895	×	×	×
1,00	2928	2407	2766	1779	2472	2346	2203	2320		2100	2197	1740	1868	×	×	×
J. 7.	2976	2813	2693	2278	2523	2390	2165	2280	ţ	2058	2224	1366	1861	×	×	×
1(30	2942	2943	2842	2161	2407	2192	2027	2430		9191	2052	1646	1690	×	×	×
502	2964	2992	2977	2366	2581	2296	2133.	2440	1	2088	2194	1913	1827	×	×	×
1600	2980	2886	2910	2364	2539	2337	2133	2440	101	2032	2173	1931	1824	×	×	×
1900	2933	2734	2979	2365	. 2459	2201	2227	2360	403	2091	2176	1857	1823	×	×	×
2000	2849	2596	2925	2384	2417	2246	2184	2280	305	2101	2076	1846	1592	×	×	×
2100	2843	2312	2822	2328	2391	2286	2176	2280	1318	5089	2059	1650	1630	×	×	×
7 2200	2876	2424	2743	2331	2325	2275	2159	2400	1721	. 2062	1979	1712	1635	×	×	×
200	2526	2515	.5952	2302	2324	2328	2188	2440	1735	2080	1938	1721	7516.	><	×	2191
95	2916	2583	2549	2252	2277	2301	2114	2360	1944	2002	1974	1631	1082	×	×	2206
Peuk Concentration	ı.	4000	4000	3600	3160	2960	2520	3720		2840	3200	3320	2630	1	1	1
Max. Courly Average	1	2992	3003	2698	2679	2457	2306	2430	2320	2119	2247	2113	1910	ı		1
24: Nour Average	ł	2704	2806	2433	2438	2329	2190	2246		2049	2124	1906	1728	1	1	1

,	-Plant not ruming	x Stack gas system down	
	MONTHLY SUMMARY FOR DECEMBER	ulphur Dioxide ($m_{\rm S}/m^3$, 3% O_2)	

				A	AIR QUALITY NOWINLY SUNMARY FOR Stack Sulphur Dioxide (mg/r	TY NOVITIES	or Survey.	NOWINTY SUNMARY FOR DECEMBER Sulphur Dioxide (mg/m³, 3% 0,	DECEMBER n3, 3% 0n)				- Plant 1 * Stack 8	not running gas system	running system down
96 96	17,	18	. 61	20	21	22.	23	24:	25	26	27	28	. 53	3. 8	31
burly Averages															
0100	2230	1200	×	×	×	×	×	1963	ı	1	1	ı	4	ı	1
020	2202	1240	×	×	×	×	×	1944	1	ı	1.	ĭ	ı	ı	ı
2300	2234	1240	×	×	×	×	×	1860	ſ	ι,	ı		ı	ı	ı
, 00-75	2200	1120	×	×	×	1982	×	2076	1	ſ	ı	1	1	ı	ı
0500	2264	1240	×	×	×	2026	×	1993	1	ı	ı	1	1 .	ı	ı
0,000	2223	1280	×	×	×	2101	×	1860	ı	ı	I	ı	ı	ı	ı
, 2700	2252	1280	×	×	×	2213	×	2012	į.		1	ı	ı	ı	ı
300	2266	1280	×	×	×	2267	×	2101	I	î	ſ	. 1	r	ı	ı
()	2400	1320	×	×	×	1996	×	2172	ı	ı	1	ı	ı	ı	ſ
COD	2703	1280	×	×	×	2001	×	ı	1	ı	ſ	1	4	1	ı
,11¢	45	1240	×	×	×	2030	×	ı	1	1		1	1	ı	ı
1200	1490	1280	×	×	·×	2182	×	. 1	1	1	ı	. 1	1.	ı	1
1500	2159	1320	×	×	×	2119	×	ŧ	1	1	1	ı	ı	1	ı
90%	2309	1280	×	×	×	2583	×	ı	1	ŧ	ſ	ı	ı	1	ı
1550	2287	1320	×	×	×	2231	×	I	-		ī	1	1	I	ı
160	1859	1280	×	×	×	1989	×	I	1	1	1	1	ı	ı	ı
1700	1698	1520	×	×	×	2104	×	1	1	ı	ſ	ı	1	1 3	ı
1800	1712	1480	×	×	×	2064	2199	1	1	1	1	1	ı	1	ı
1900	1714	1520	×	×	·. ×	×	2023	I .	1	ı	1	1	1	1	1
5000	1641	168	×	×	×	×	1933	ı	1	ı	ı	ı	ı		ı
2100	ાગા	388	×	×	×	×	1899	ı	1	1	٠,۱	1	ı	1	1
2200	1523	1760	×	×	×	×	. 1946	i	^ I		1	1	ı	1	ı

. 2760

Feat. Concentration

IN-STACK NO_X DATA

NOPEAR RIVER POWER STATION AIR QUALITY MONTHLY SUMMARY FOR 1981-April 221 Stack Nitrogen Oxides $(mg/m^3, 3\% 0_2)$ UNIT NOT OPERATING UNIT NOT OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

UNII NOI OPERATING

UNIT NOT OPERATING

UNIT NOT OPERATING

DAIL NOT OPERATING

CXIL NOT OPERATING

1300

1400

1100 1200

1000

1500 1600 1700 1800 1900 2000 2100

- Plant not running Legenā:

348

256

Max. Hourly Average

24 Hour Average

Peak Concentration

2200

2300

98

6

9

5

3

Hourly Averages

0090 0020 0080 0000 TABLE 2

POPLAR RIVER POWER STATION

AIR QUALITY MONTHLY SUMMANNY FOR 1981-Nay

Stack Nitrogen Oxides (mg/m³, 3% 0₂)

497 587 654 - 488 605 636 - 493 620 650 - 576 625 573 - 619 622 540 - 602 618 556 - 604 619 551 - 633 802 838 78
61.9
· ·

Legend:
- Plant not riming
x Stack gas system down

				AIB	YTITIAD S	AIR QUALITY NOVIHLY SUR	W. M.	FOR SEPTEMBER 1981	TEMBER :	.981		<u>।</u> भा	– Plant no	t rumit	ර්ට	
بن				Sta	ck Nitrog	Stack Nitrogen Oxides (g	ع (روزار) ج	3% 92)	- 1 - 1 - 1			××	Stack ga	* Stack gas system down * Burning of 1	n'down	
00 到1	Ŧ	2	3	7	77	9	7	œ	6	10	. 11	12	13	14	15	16
iourly Averages.																
0100	1	1	ı	1	1.	1	1	1	1	1	ž	772	*	×	×	×
200	ı	ı	1	1		1-	1	1	i	1	××	772	×	×	×	×
3353	1	1	1	1	!	1	1	\$	ı	玄	××	277	×	×	×	×
0,400	1	1	1	ı	1	1	1	ı	1	な	××	277	×	×	×	×
050	1	1	1	1	1	1	1	1	1	×	6374	772	×	×	×	×
0000	1	1	1	1	1	ı	1	1	1	××	662×	772	×	×	×	×
. 85	1	1	1	1	1	ı	1	. 1	1	*×	625*	772	×	×	×	×
0500	1	1	1	1	1	1	1	1	ı	*	711*	×	×	×	×	×
8	1	1	1	1	ı	ı	1	1	1	××	248	×	×	×	×	×
1000	i	1	1	1	1	1	1	1	1	×̈́	736	×	×	×	×	×
	1	1	1	1	1	1	1	1	-1	*	736	×	×	×	×	×
1200	ı	1	1	1	1	1	1	1	1	×	736	×	×	×	×	×
851	1	1	. 1	1	1	1	1	. 1	1	×	736	· ×	×	×	×	×
7400	i	1	1	ı	1	1	1	1	1 .	××	748	×	×	×	×	×
1500	1	1	1	1	1	ı	1	1	. 4	**	785	×	×	×	×	×
1600	1	1	1	I	1	1	1	1	1	*×	797	785	×	×	×	×
1700	1	1	ı	1	1	1	1	1	1	××	97/8	760	×	×	×	×
1800		ı	1	1	1	1	1	1		×	834	772	· ×	×	×	×
1900	ı	ı	1	1.	i	i	1	1	1	××	832	772	×	×	· ×	×
2000	1	1	ı	1	., 1	1	1	1	1	- X	797	772	×	. ×	×	×
218	I	ı	ı	1	1	1	1	1	1	Ť	. 797	772	×	×	×	×
2200	1	ı	1	. 1	ı	1	ı	1	1	××	772	772	×	×	×	×
2300	1	ı	1	1	1	ı	1	ì	1	*	772	772	×	×	×	×
24	1	1	ı	ı	ı	1	1	1	1	ķ	772.	772	×.	×	×	, X
Peak Concentration	1	- I	I,	I	1	1	1	1	1	ı	ı	ı	×	×	×	×
Hax Burly Average	1	,									1	یا : سما	×	×	×	×

				orac.	Jeach Wittog	טאַרון סאַר פאַר פאַריי	गा/श्रेगो ट	20 02.	MRFR			~ **	Stack Burnin	* Stack gas system down * Burning oil	m down	
(,)	17.	18.	19,	20	21.	22.	3.	24:	25	26	27	28	59	30	31 ·	•
:ly Averages																
0	×	896	10424	926	201	925	467	539	563.2	502 5	531.0	520	564.7	569.3		
	×	666	1054*	926	202	925	÷67	539	560.9	502 5	537.8	520	568.1	567.1		
	×	1042	1042%	17 76	202	925	557	539	556.6	502 5.	538.9	520	567.8	568.3		
0	×	1103	1054*	5776	207	925	367	515	561.7	510 5	538.2	522	568.6	568.3		
0	.×	1157	1042%	932	706	920	· 557	515	260.0	510 5	534.8	522	568.9	563.6		
0	×	1152	1042%	932	912	700	367	515	554.3	512 5	523.6	522	571.9	557.9		
C	×	1165	1054%	932	912	925	357	515	552.3	512 5	507.1	527	571.7	561.9		
C	×	1189	1054%	919	202	925	65 7	515	540.9	510 4	438.4	527	575.8	566.3		
C	×	1201	1042%	919	912	202	*67	515	542.9	510 5	515.3	527	573.3	536.7		
0	×	1226	1042%	919	915	205	245*	515	527.1	502 5	517.9	G1	189.8	504.9		
C	×	1226	1042%	916	915	202	*067	515	485.9	502 5	524.9	Ca1	280.6	570.1		
	×	1226	* 7776	1226	920	200	368%	515	6.764	510 5	522.6	Ca1	557.8	570.9		
o . C	×	1226	*776	1226	932	700	380%	539	500.3	510 5	523.9	Cal	560.3	572.0		
n (1	×	1226	.616%	×	932	206	067	552	502.9	515 5	526.1	Cal	563.6	576.2		
	;	100	******	;	033	007	7.00	27.7				- 5	E67. 4	. 7 772		
7	×	701	2/26	×	726	3	1430	700				7 23 24	204.1	0.000		
0	×	663	932%	×	920	202	760	552	504.2	520 5	529.5	<u>2</u> 1	567.2	569.1		¢
C	×	1017	926%	858	200	515	503	552	510.2	520 5.	531.0	×	568.1	570.9		
0	×	1029	932%	870	200	515	503	552	510.5	525 5.	534.0	×	569.3	563.7		
0	858	1017	919	882	932.	515	515	552	508.7	525 5	528.4	×	574.8	577.7		
О	858	1042	932	602	932	515	515	552	509.4	530 5	525.9	×	574.8	576.5		
C	870	×	932	932	932	515	515	552	515.0	539 5		552	573.1	569.9		
	919	×	926	926	932	515	539	552	507.6	539 5	527.4	552	574.3	570.9		
1	77/6	×	919	926	932	67	539	552	6.967	539 5.	531.0	552	569.3	566.8		
01	956	1042%	926	932	925	467	539	552	6.967	539 5	531.0	552	569.3	566.8		
* Concentration	×	×	1226	×	1005	1005	240	260	.592.4	588 5	555.6	×	592.4	592.4		
. Hourly Average	×	¬×.	1054	×	932	925	539	552	561.7	539 5	538.9	· ×	575.8	7.772.		٠
	• (700		0 * 0	27.3	276	,,,,	1 1 4 1		4 4 9	•				

7.4				ATE	VEVOL METHOLISM STRAINS ATTAINS	NAME OF STREET AS	A SUMMER	STITLES.	City Table 1981	ά		ज् न	gana:		(
renc downtime = 0	22,5%			Sta	Stack Nitrogen Oxides (mg/m ³	en Oxide	m/Büij šē	3%;	St.	1981		I XZ	-Italic not twining *Stack gas system'down M'Maintenance, on stack	is systemic ince, on sta	- 1	stem
2	-	2	m	7	Ŋ	9	7	ω	0	10	11	12	13	14	15	16
this hverages.																
R	566.8	522.2.	544,6	520.1	528.3	529.5	542.1	531.8	545.8	670.8	692.3	664.8	6.98	437.8	708.6	635.0
2.	569.9	530.7	535.8	527.3	531.4	545.2	542.1	537.9	9.645	696.7	696.2	657.8	89.1	4.7.4	5.669	4.639
3	574.8	531.9	532.8	533,7	526.2	545.1	529.5	531.8	546.7	6.799	704.8	664.1	97.8	369.5	701.4	641.9
8.	569.4	539.1	538.3	534.9	533.7	518.9	545.2	526.8	552.6	672.9	704.6	662.3	408.3	432.1	9.769	636.2
3	574.4	541.4	435.3	517.4	539.4	473.4	545.1	531.9	548.8	677.1	7.607	632.9	468.9	422.9	697.4	641.8
?	573.1	537.8	535.9	517.9	534.6	4.77.4	518.9	535.8	544.2	683.5	703.3	661.2	9.095	396.6	685.6	638.3
?	571.6	540.3	532.6	531.3	532.8	6.674	478.4	538.0	538.5	691.8	6.869	627.9	379.7	459.6	690.8	585.9
)	572.3	543.4	528.3	537.8	528.8	479.5	4.77.4	547.3	541.6	685.0	708.9	627.5	458.7	482.4	697.3	9.519
.}.	567.2	546.3	534.8	533.6	521.6	476.4	6.674	554.2	546.3	672.6	700.3	7.479	418.3	494.2	663.9	648.8
	569.0	249.7	537.1	528.0	526.1	21.4	513.8	550.4	538.2	681.3	705.9	657.0	483.1	262.1	677.8	581.3
	189.4	430.4	537.3	527.4	337.5	372.8	531.9	549.1	543.7	9.989	704.1	634.1	299.8	9.45	577.8	655.5
	58.7	207.0	526.6	520.2	345.1	503.3	509.4	546.1	551.6	690.5	706.7	632.2	6.897	273.6	557.3	673.8
	7.09	9.667	523.9	537.6	529.3	504.8	9.474	6.346.9	556.1	696.1	702.8	583.4	524.7	711.6	527.9	672.7
.)	197.7	515.3	516.0	538.5	535.2	512.0	74.8	553.4	558.4	697.1	713.0	608.7	480.9	313.3	513.8	667.3
	545.1	517.8	523.2	521.6	530.1	525.1	257.9	557.0	562.9	687.7	702.1	605.5	456.9	313.3	463.9	6.099
.3	519.3	512.9	524.7	540.9	527.9	525.1	532.2	552.1	531.0	9.699	705.5	637.4	413.5	348.1	575.8	661.8
()	511.7	517.9	.528.0	539.1	530.1	532.6	639.9	555.4	554.5	7.00.7	708.3	627.8	456.3	123.4	0.619	666.3
	525.4	518.7	529.2	540.7	541.4	541.9	548.6	547.6	575.3	9.669	705.6	627.8	500.4	442.7	634.6	8.649
	529.2	524.7	527.1	535.3	549.7	540.1	555.6	554.3	605.2	702.1	700.6	624.4	503.3	528.0	643.8	606.1
. 8	535.5	527.1	525.9	528.8	554.9	543.1	561.1	550.6	654.4	9.907	703.4	617.9	382.5	565.7	640.3	621.8
3	532.2	531.8	530.8	533.8	551.5	530.7	5,7.2	554.6	651.4	9.707	678.3	517.7	443.4	685.3	641.0	591.9
()	529.3	536.3	533.8	536.5	545.9	534.3	544.4	556.8	9.659	709.3	1.699	501.9	6.99.3	9.769	635.8	619.9
ંડ	523.9	533.6	531.0	540.3	.542.1	538.8	535.2	551.8	658.8	707.4	666.1	322.7	336.4	692.3	624.3	676.3
	523.9	533.6	531.0	540.3	642.1	558.8	535.2	551.8	658.3	707.4	666.1	322.7	336.4	692.3	624.3	676.3
	588	576	552	552	551	588	576	588	736	736	736	662	674	760	760	760

676.3

708.6

664.8

713.0

y'659

557.0

561,1

554.9

540.9

540.6

544.6

4549.7

473.3

Total Average

	A. F	The state of the s	or Transmitted to	ans.	ck later	Stack !!! trogen Oxid	(20 %E, 'n, 'gm) su	3% 02)	The state of the s	1			Friding Not Edwards 18 N Stack gas system do:	Not remisely gas system ((e).]
	17.	ಎ	19,	50	27	22.	ឌ	. 54.	25	202	i.	3	20	30		
sagerange :																
	677.5	619.8	677.9	652.1	×	×	×	571.7	639.1	9.989	828.5	ス	×	×	×	
	673.3	637.1	685.3	ċ60.4	×	×	×	575.6	603.8	674.4	844.3	Z	×	×	×	
3	677.2	620.9	695.6	663.6	×	×	×	567.4	584.6	675.6	834.9	ঘ	×	×	×	
5 .	6.499	638.0	694.1	6,00.0	×	×	Ж	576.3	178.8	6.079	814.4	N	×	×	×	
	664.1	616.3	4.769	655.2	×	×	×	577.1	28.3	679.8	795.8	×	×	" *	×	
`	661.6	583.9	698.6	660.1	74	×	×	562.4	33.7	683.3	806.2	Z	×	×	×	
	662.8	586.8	694.3	660.8	×	×	×	571.3	37.3	690.5	803.2	Z	×	×	×	
	6.009	474.4	691.9	9.989	×	×	×	553.9	38.0	663.9	794.1	M	×	×	×	
;	9.659	559.0	687.5	0.449	×	×	×	568.4	38.0	649.5	617.6	Z	×	×	×	
,	658.8	603.4	630.7	618.7	×	×	×	559.9	38.9	570.8	596.6	囯	×	×	×	
	657.0	632.8	688.8	639.2	×	×	×	516.2	56.5	604.2	580.1	Z	ж	×	×	
,	657.3	8.049	662.1	658.2	·×	×	×	576.8	377.9	783.2	585.4	Z.	×.	· ×	×	
<i>(</i>)	657.6	651.6	8.409	638.1	×	×	×	585.4	×	818.9	583.7	Z	×	×	×	
9	633.6	661.2	588.9	656.4	×	×	44.30	584.1	×	823.3	597.0	Σ	ж	×	×	
	561.7	658.6	588.6	554.9	×	×	417.9	567.9	×	825.2	569.8	Z	×	ж	×	
``````````````````````````````````````	593.3	661.9	581.6	364.5	×	×	471.3	568.4	550.1	830.4	563.3	Z	×	×	×	
۵۲.	597.1	659.4	4.44.6	278.4	;;	: (	579.6	5.002	675.5	856.6	Ţ.	· print	*	×	×	
83.	598.3	663.0	653.1	292.0	×	;;	562.6	577.1	0.039	841.7	·-:	27	::	×	×	
035.	591.4	672.1	651.8	255.3	• •	14	561.7	579.2	665.0	338.4	<u>.</u>	지	Ж	×	×	
. 93	636.2	672.4	657.8	206.5	• 	×	575.9	576.6	4.4.0	36.0	<b>,</b> 141	귈	ж	×	×	
3100	645.3	670.5	656.7	278.8	×	×	578.3	587.1	0.429	2.1.7.2. 2.1.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	7.	×	<b>&gt;</b> 4	×	×	
3500	640.7	672.7	668.5	321.8	×	×	580.7	585.9	7.669	847.5	Σ	Z	×	×	×	
10	6,013	7.489	659.4	314.1	×	×	568.9	589.2	699.2	844.3	Z	Z	×	×	×	
0.3	640.3	4.489	4.659	314.1	×	×	568.9	589.2	699.2	844.3	Z	E	×	×	×	
Park Consentration	989	989	723	711	ı	í	i	8174	ı	896	1	ŧ	ı	1	1	
the Sourly Average	677.2	, 684.4	693.6	663.6	ı	i	ı	589.2		844.3	í	1	1	§ .	î	
e see market and the		7.789	620.5	517 6	10	1	•	5 645	***	2 707	3					

TABLE 2.				ATA	ATE CLIATITY MONTHLY SIMMARY	LAR RIVER MONTHLY S	POWER'S	STATION Y FOR				Leg(	Legend: -Plant not :	ruming		,
Percent downtime = 13.9 %				Sta	ck Nitrog	en Oxides	π/g/m	3% (22)	!			S **	*Stack gas	system down	lown	•
04 到红	<b>प</b> र्ज	7	ო	4	(expressed as 1402) 10r 5 6 7	- (2) 9	or Novell 7	. a	6	10	11	12	13	14	15	16
Hourly Averages.																•
010	×	×	924	923	200	870	296	ı	87	785	817	862	×	ì	1	ı
0200	×	×	905	8	968	850	í	ı	79	230	812	862	×	ì	ı	ı
0300	×	×	88	906	897	861	ı	1	96	96/	803	870	×	ı	ß	ı
0,400	×	×	200	910	897	862	1	ı	134	790	813	871	×	ŧ	1	t
0200	×	×	868	903	892	855	. 1	ı	16	773	815	198	×	ı	ı	1
0090	×	×	895	668	8	855		ı	88	792	814	854	×	1	1	ı
. 070	×	×	903	305	894	852	ı	i	342	787	88	853	×	1	 I	1
080	×	×	897	910	893	848	ı	ı	108	785	813	851	×	1	ı	ı
860	×	×	. 200	923	877	857	1	ı	878	788	815	361	×	1	ı	. '
1000	×	×	530	912	815	869	1	1	\$	799	831	732	×	ı	ı	ı
1100	×	×	208	897	940	891	1	1	923	811	846	828	88	ı	ı	ı
1200	×	×	154	826	949	252	1	ı	169	831	298	901	903	ı	i	ı
1300	×	×	481	964	927	961	1	ì	777	850	890	917	910	1	l .	ı
1400	×	×	703	996	920	974	1	1	069	854	904	930	908	ı	ı	ı
(1 ₅ m)	×	×	769	749	933	976	1	ı	9/9	844	883	345	1	ı	1	ı
1600	×	×	761	200	895	918	ı	634	732	796	828	391	ı	ı	ı	t
1780	×	285	8	833	879	968	ı	67	783	825	305	935	ı	ı	1	1
1800	×	925	895	913	998	626	ı	88	791	842	88	917	ı	t	1	ì
1900	×	928	909	216	885	954	ı	\$	795	827	861	806	ı	1	ı	ì
	×	325	915	830	876	951	ı	8	790	821	362	908		ı	ı	1
₩	×	924	918	068	988	922	t	83	787	821	.864	906	1	ı	ı	,
2200	×	915	903	892	803	646	1	8	. 082	320	857	918	1	1	i	
	>	017	010	201	282	0/13	1	6	700	000	סבע	000				

Peak Concentration

854 ·

		0	N. Carlotte	14 6	AIR COALLY N	NOV CHI	Y SUPPLARY	FOX FOX					-Plant	not ruming	ing
MIE					cack intro (expressed	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	for Nove	, 3% 02 arber	:				x Stack	xStack gas system down	cm down
ट्या	17.	18.	19.	50	21	22.	23.	24:-	25	56	27	28	56	30	31 ·
burly Averages															
2100	ı		ı	ı	1	ı	1	1	1	ı	711	693	678	807	
0200	1	1	1	ı	1	ı			ı	ı	709	685	626	608	
0300	1	1	1	1	1	1	ı	ı	1	1	263	. 069	674	200	
0,400	1		ı	ı	1	1	1	1	ı	1	127	704	629	730	
0500	.1	ı	ı		ı	1	1	1	•	ı	247	704	269	775	
. 0090	1	1	1	1	ı	ı	ı	1	ı	ı	541	732	651	753	
0700	ı	1	1		ı	ı	1	1	ı		495	749	674	706	is.
090	1		1	ı	ı	ı	1	1	ı	1	280	753	670	693	
0060	1	1	ı	1	1	ı	ı	1	ı	1	642	751	672	069	
1000	1	1	ı	ı	ı	ı	ı	1	ı	ı	979	767	261	694	
1100		1	1	ı	ı	1	1	ı	1	1	654	772	185	701	
1200	ı	1	1	T	1	ı		ı	ı	1	715	752	213	902	
1300	ı	ŀ	1	1	ı	1	ı	•	1	ı	695	761	177	88	
1,400	ı	ı	ſ	1	1	1	1	1	ı	ı	730	745	202	742	
1500	ī	1	ı	1	1	ı	1	1	i	ı	733	739	163	88	
1600	1	,	1	•	ı	ı	ı	1	ı	1	699	736	165	88	
1700	ì	1	1	ì	ı	1	1	1	1	ı	635	693	505	790	
1800	ı	1	1	1	.1	ı	1	1	1	ı	723.	682	999	725	
1900	ı		ı	1	·,	1	I =	1	1	1	682	712	069	781	
500	1	1		1	% 	1	ı	1	1	1	-717	714	687	. 777	
2100	ŧ	1	1		1	1	ı	ı	1	1	744	869	701	709	
2200	1	1	1		ŧ	1	ı	ı	ŧ	1	673	704	743	689	
	1	1	1	1	1,	١.		ı	ŧ	.1	969	643	758	730	
105	ı	ı	ı	1	ı	1	ı	1	1	1	. 069	672	779	775	
Peak Concentration	1	ſ	ŧ	ı.	1	ſ	ı	1	1	ı	760		810	825	
Max. Hourly Average	ı	~¹.	1	1	ı	1	1	ı	1	ı	744	772	779	803	
	1	1	1	1	'	1	3	1		•	612	694	539	745	

	٠			AIB	CUALITY	A SHINOW	SUMMANS.	30.7°	CERSER			1 - E	Agend: - Plant not		,	
4				Sta	Stack Nitrogen Oxide	rogen Oxides expressed as	\$ (M2/m ² ).	, 5% 02)	: :			XO	x Stack gas C computer p	. twilting s system down problems	odown S	
06	+1	2	ಣ	7	Ŋ	9	7	ω	6	10	$\vdash$	12		14	15	16
rly Averages.																
ප	781	749	714	647	. 656	764	705	705	604	820	788	712	. 629	×	×	×
50.	782	157	726	633	670	767	669	717	099	820	787	717	578	×	×	×
8	779	740	726	. 635	643	772	702	704	88	813	790	712	650	×	×	×
3	762	725	727	630	643	775	702	708	99	812	780	705	623	×	×	×
200	749	725	734	635	929	763	669	712	039	811	777	703	677	×	×	×
,	755	731	736	63]	690	762	708	707	700	817	770	701	111	×	×	×
	746	718	739	640	629	762	687	707	700	814	769	711	726	×	×	×
2	760	717	735	633	625	757	699	707	989	816.	177	. 693	743	×	×	×
	ပ	707	299	649	83	764	657	- 869	099	814	766	999	724	×	×	×
93	751	702	653	643	689	770	495	69	647	816	167	672	693	×	×	×
0	762	727	655	675	702	762	899	. 661	591	811	763	111	701	×	×	×
}	784	632	675	605	715	763	989	674	219	823	706	109	732	×	×	×
800	\$	576	699	705	7.69	754	691	680	1	698	781	. 629	742	×	×	×
	812	674	299	902	705	748	200	8	ι	894	783	209	737	×	×	×
8	814	738	299	713	716	744	705	200	ı	887	779	687	736	×	×	×
8	88	797	199	099	675	269	9/9	769	í	870	731	590	969	×	×	×
8	793	<u>ස</u>	SSS .	269	714	723	869	8	i	369	757	. 169	722	×	×	×
g	814	8	999	272	712	724	701	. 700	176	852	754	988	712	×	×	×
8	820	8	099	0/9	716	706	707	099	187	851	745	. [8	111	×	×	, **
8	603	792	655	629	718	717	705	620	33	807	693	632	767	×	×	×
8	802	732	653	999	202	717	705	620	611	812	705	69	754	×	×	×
8	003	748	622	949	734	716		949	730	608	713	615	762	×	×	707
8	781	730	6/12	6/14	742	716	695	620	747	S	703	631	778	×	×	741
CQ	755	724	638	628	754	719	883	970	814	798	107	602	575	×	·×	749
alt Consentration		820	88	720	88	88	720	78		8	Ş	740	1020			
x. Hourly Average		88	739	713	754	775	707	7i7		894	730	717"	778	į		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	A	104	10.7	ا شدر		TAM. SHOPE		100		2		-		100		

14		•																											
9.	H GOWN	31		ŧ	i	ì	1	t	ı	ŧ	1	1		i	ı	1	ź	t	I	ŧ	ı	ı	ı	ı	Ī	ı	ŧ	1	ι
gurum aci	x stack gas system down	8		ı	t	i	i	ŧ	í	ŧ	ŧ	i	t	i	ı	1	1	ι	ı	1	ľ	i	į.	i	ı	1	ŧ	ŧ	ı
	x vrack	29		ı	ŧ	ı		1	ı	ŧ	ι	1	ı	1	τ.	1	Ī		1	î	ı	1	ı	1	1	t	ţ	:	1
3		28		ı	t	1	1	ŧ	t	ŧ	ŧ	į -	,	1	ı	t	B.		t	,	1	ŧ	ι	ι	ı	ŧ	<b>I</b>	ı	, I .
3		27		ť	t	t	ŧ	t	ι	ı	ŧ	ı	ı	ι	ı	ı	t	1	ı	3	ι	ı	[ ·	. 1	ı	ŧ	i	ŧ	ι.
		26		t	ı	٠	i	ı	ı	ı	ı	t	t	i	ı	1	í	1	1	ı	i	t	ı	ı	1	ı	i	t	t ,
		25		ı	t	1	ı	ι	t	I	ı	ı	ı	1	t	t	ı	ı	t	ł	ŧ	<b>.</b>	z, t	1	ı	ι	ŧ	ı	ŧ
- 100 C	NO2	24:		893	996	805	915	892	894	911	2007	802	ι	-1	ı	ŧ	1	ğ	ı	i	ı		t	ŧ	1	1	ı	, E	1
		ä		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	920	950	930	. 917	058.	988	809	ı	į i
The state of	ogen used xpressed	22		×	×	×	209	618	614	919	209	909	594	575	559	568	490	010	597	631	618	×	×	×	×	×	×	1	<b>1</b> 5
	stack Nitrogen Oxides expressed as	21		×	×	×	×	×	×	×	×	×	×	×	·×	×	×	×	×	×	· ×	×.	· - ×	×	×	×	×	ı	1 1
	מ	50		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	I	1 .
		19.		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	ŧ	1
		18		000	009	009	290	290	520	520	520	520	520	540	540	200	200	200	430	480	520	83	460	200	540	260	220	760	000
		17.		741	746	747	763	787	795	805	816	88	795	78	885	675	883	713	202	099	647	629	643	. 629	621	573	591	820	816
	٠		Averages																								107	Supentration	Lourly Average
	된	धुं <del>।</del>	urly	8	8	2	8	2	Q	3	8	3	8	.8	8	,8	Q	C	3	2	3	8	8	- 2	S	2	3	:	•

IN-STACK OPACITY DATA

- Plant not running x Stack gas system down

TABLE 3

POPLAR RIVER POWER STATION
AIR QUALITY MONTHLY SUMMARY FOR 1981-April
Stack Opacity (2)

16												ЭN	ITAJ	SEA(	O LO	ON	lin	red.										
15												9%	ITAS	BEE	O I	ИО	lix	<u>.</u>										
14							•					ИС	ITAS	ber	O I	ON	110	1										
13		99	57	55	57	54	4.5	52	55	09	74	85	84	82	80	89	6.5	63	65	67	75	77	7.0	1	ì	85	85	N/N
12		78	85	84	84	8/4	83	84	98	85	85	81	7.9	78	78	77	15	6 8	54	57	59	09	62	63	63	98	98	75
11		ı	ı	ı	1	i	ŧ	ŝ	1	ŝ	ŝ	ı	ı	i	1	ŧ	1	1		ì	09	39	717	. 75		87	98	N/N
10												ЯĈ	ITA	BEB	0 I	RO	IIN	ī.							٠			
												2K	ITA	BEB	0 I	ON	11:5	n										
8									•			ИĈ	IIV	БЕЗ	O L	ON	11X	î.										
2												MC	ITA:	ses	O T	20	IIK	æ										
9												ИС	ITA	bes	0 I	ON	IIN	Ω										
5												ÐN	IIV	EE3	0 I	ON	IIX	î.		٠								
Þ												ЭN	ITA	БЕS	O I	ON	ZZ:C	Ω										
8												ZC.	IIA	BEB	O I	OR	ZIK	<b>:</b>										,
63												ЯС	ITA	ЬEВ	0 I	ON	LIN											
1												ИĈ	ITA	BEK	0 I	ON	IIN.	<u></u>										
DATE TIMS	Hourly Averages	0100	0200	0300	0000	0500	0090	0200	0800	0000	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	reak Concentration	Max. Hourly Average	24 Hour Average.

2100 2200

1300

1200

0700 0800 0900 1000 1100

x Stack gas system down - Plant not running

0020

0200 0090

x Stack gas system down - Plant not running

Legend:

TABLE 3

POPLAR RIVER POWER SYATION
AIR QUALITY MONTHEY SUMMARY FOR 1981-May
Stack Opacity (%)

13 14 15													į	OKIJ	TEAT	OBE	T0;	Z II	IKN								
11 12														INC													
. 10		09	55	58	57	55	09	55	26	26	54	55	63	67	62	09	6.2	62	65	7.0	75	75	75	.83	i	98	83
9		62	65	62	62	19	99	63	09		55	52	09	65	63	6.2	62	09	62	65	62	65	67	63	99	98	29
8		7.5	70	70	68	29	70	65			99	99	6.4	65	65	6.2	6.5	29	89	65	70	72	70	68	67	98	75
2		63	65	70	89	89	63	62	65	63	58	1	ı	1	ſ	ı	ī	ı	55	35	55	80	82	78	75	87	82
9		80	7.5	92	80	72	73	72	17/	7.5	74	75	7.0	7.3	74	7.0	6.5	89	99	89	99	68	68	70	99	86	80
ro		62	58	99	53	55	53	50	99	_ 29	58	55	58	62	65	6.8	63	7.0	70	50	09	20	65	69	92	85	92
Þ		55	56	55	55	8 7	94	8 7	43	46	48	8 7	50	45	87	55	6.5	29	62	65	9	6.8	89	65	65	98	89
2		1	1	ı	1	ı	ı	i	ı	i	1	1,	1	1	1	35	38	44	75	45	50	52	67	54	20	98	75
62											•			ERC	TAA	OBE	TO	n l	IKN								
7		42	40	38	04	38	39	39	37	38	37	38	38	50	1	ı	1		1	ı	1	1	1	1	Į.	94	C V
[2]	rly Averages															42	44	. 65	. 62	63	. 09	55	48	45	45	Peak Concentration	the though Anonon
DATE	Hourty	0100	0200	0300	0400	0200	0090	0200	0800	0000	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2100	Peak	2

	31											Đ	LIX	ZYZ	OBI	TON	: II	IKN												
	30											£	LIX	ERAT	OBI	TON	. II	IND												
	29											£	LIN	ERAT	Obl	TON	TI	LNA												
	28											£	NIJ	ERAT	OPI	TON	I I	LKN												
	27		80	80	80	79	80	62	80-	81	80	82	83	83	83	82	8.1	80	80	81	ı	1	ı	1	1	1	98	83	N/A	
	92		1	1	1	ı	ì	i	1	ŧ	ł	i	i	ı	1	83	83	83	83	83	83	81	80	92	62	79	88	83	N/A	
· p	25											£	NIJ	ERAT	OPE	TOF	: I	CNI												
Continued	54							-				5	DNI	TAS:	Obe	IOI	( I	IKO												
$\sim$	23											5	ONI.	TAZ:	Obe	TO	: I	INA												
Table	22		99	70	75	75	75	74	7,3	73	7.0	99	99	65	70	75	70	75	ì	ŧ	ı	ı	ì	ı	11	t	85	7.5	N/A	
	21		71	7.1	70	77	78	. 77	92	75	7.1	68	19	89	64	65	62	7.0	74	72	73	. 92	77	67	65	68	85	78	71	
	20		80	80	81	80	78	92	74	78	80	81	78	92	75	72	70	7.0	89	69	69	69	7.1	99	70	71	85	81	74	
	13		58	59	56	4.5	51	58	89	73	99	69	99	29	58	59	99	7.1.	71.	74	73	71.	77	77	82	81	85	82	99	
~	18		ı	1	1	1	ı	ī	ì	ì	1	ì	1	1	ì	ì	08	78	73	26	55	99	99	63	62.	20	89	80	N/A	
	12 .								•			;	DNI	TAA	OBE	TO	N I	IND												20
Ą		min Anorones	0100	00	00	00	00	00	01	01	00	00	00	. 04	20	20	20	20	20	70	20	. 00		. 06	20	. 00	Peak Concentration	Max. Hourly Average	24 Hour Average	Percent Downtime = (
7.00 B.M.	TIME	1101	010	0020	0300	0400	0200	0000	0200	0800	0000	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Pec	Max	24	Pe

Legend:
- Plant not running
x Stack gas system down

		-		V ₄	MAIRI	TITAL	KIVE May L	R S	FON				legel			1
LOWICING = 5%						. Stac	Stack Opacity	· (%) A	• :				x Stack	gas syste	system down	
ज्या .	<del>रत</del>	7	ന	7	2	9	7	∞			. 11	12	13	14	15	16
Mourly Averages.																
0100	63	82	98	1	. '	ı						٠	÷			
, 0200	63	59	98	1	ı		ı	l	ı	ı	ı	84	77.	82	8	86
0300	63	58	85	ı		1	ı		ı	ı	ı	82	73	. 72	ı	86
00,00	62	56	85	·	ı	<b>i</b> 1	l	ı	1	1	1	81	23	8	1	98
0500	61	62	83			I		l .	ı	1	1	8	73	79	ı	86
0090.	8	75	82		l i	1	ı	1	1	ı	ı	79	74	75	ı	85
0700	59	98	8	1	l I	ı	ı	1.	i	i	-1	79	85	75	ı	86
00300	59	75	78	ı		ı	1	1	1	ı	ı	78	85	75	ı	86
00%0	59	. 62	76	ı		ı	ı	ı	1	1	ı	92	85	75	ı	86
1000	8	58	75	,		1	t	ı	t	1	1	76	85	78	ı	85
1100	61	56	72	ı	ı		1	ı	1	ı	t	92	85	. 78	Ą	\$
.1200	79	8	72	ı	ı		I	t	1	ı	ı	8	85	82	NA	7%
1300	61	2	! 2	ı	1 1	ı	١ .	1	1	I	I	74	. 85	82	¥.	778
. 1400	58	78	65	ı	1		ı	I		1	ı	74	84	83	NA A	84
1500	57	78	62	I	l I	ı	ı	ı	ı	ı	ı	75	84	83	NA	84
1600	58	ı	Ş.		1	I	l	ı	1	ı	86	76	874	. 83	N.	85
1700	C		} {	ı	I	1	1	1	1	ı	85	76	84	82	NA NA	85
1800	) u	1	· 25 {	1	3	ů	1	1	1	1	85	76	84	84	86	α
1900	S 12	l i	χ Σ	1	1 - 5	ı	:		ı	ı	83	76	85	83	86	8 8
. 5000	57	· •	3 6	t :	1.	ı	ı	1	ı	ı	₩.	76	85	83	86	8
2100	28	ı	} ,		l	ı	ı	ı	ı	ı	. 82	76	85	83	98	79
2200	28	ı	ı	١.	ı	I	I	ı	ı	ı	84	92	85	82	86	78
	62	ı		l i	ı	١.	1	ı	1	ı	%	9/	85	82	98	78
13 30%	8	- 1	ı	ı		ı	ı	ı	ı	ı	48	76	85	81	86	78
Peck Concentration		•				ı	1	ı	ı	ı	. 78	75	85	. 81	86	7,5%
Max. Mourly Average	79	98	ı	ı	ı	ı	ı	ı				:				
	5	:								,	2	84	85	48	87	86

ن بست				ATF	AIR QUALITY MONTHLY	MONTHLY	115	Y FOR JUI	JULY 1981				-Plant not		දු -	
11 图						Stack (	Stack Opacity (	(%)	· #[] ·				x Stack gas		system down	
4 54	17.	18	19`	20	21.:	22.	23.	24	25	56	27	28	53	30	31	
burly Averages																
. 81	98	98	499	75	74	1	29	84	78	29	ı	99	62	99		
0200	86	98	25	式	73	1	99	83	78	98	8	. 99	89	. 19		
3300	86	86	99	52	72	1	65	81	78	i	89	. 99	65	62		
78	98	86	62	54	70	1	65	8	79	ì	88	65	<del>7</del> 9	63		
0500	98	86	. 62	54	. 71	1	94	79	78	i	85	\$	79	79		
Séco Constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina de la constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constan	98	98	8	54	70	1	65	78	77	1	8	49	65	79		
	86	98	8	65	68	1	65	77	78	. 1	85	63	799	65		
050	98	98	8	54	29	1	64	9/	79	1	98	49	79	79		
	98	98	58	. 56	1	83	65	75	, ₆ 2	1	98	62	<del>5</del> 9	62		
0001	98	98	58	57	í	85	99	75	8	1	83	65	. 65	N.	T103	
1100	98	98	56	52		85	99	21.	81	1	85	63	759	NA NA	· IXI	
1200	98	98	8	53	. 85	85	20	75	77	1	77	63	<b>S</b> .	NA NA	N NE	
.1300	98	98	28	1	85	85	29	77	82	1	75	63	61	NA NA	0 82	
7,80	98	. 98	58	1	77	83	29	76	78	ı	77	79	70	NA NA	/DI <i>W</i>	
,	98	36	58	1.	74	82	99	76	92	ı	. 72	. 63	61	S.	. KEV	
091	98	986	58	1	75	83		75	74	1	. 71	75	88	NA NA	EK OF	
1700	86	98	82	85	<del>1</del> 7/	85	. 89	74	72	;	. 07	65	61		VINDI	
1800	98	98	28	83	73	82	2	73	71		89	65	\$		KEW	
1900	98	86	58	82	74	77	79	73	20	1	89	. 65	8			
2000	98	86	56 ·	81	72	75	87	73	69	ı	65	65	59			
2100	98	85	55	62	72	77	84	70	89	ł	. 70	779	59			
2200	86	. 79	法	79	ı	. 92	85	75	88	1	. 89	63	65			
2300	98	62	充	77	1	72	84	75	89	1	65	89	62			
24C	98	62	\$	75	1	89	83	75	89	1	. 69	\$	8			
Peak Lincentration	87	9,6	98	9,6	. 98	88	88	86	87	83	68	. 98	85	98		
Mix Trly rage	36	-,86	199	8-	8	85	[x	8/[	82	86	89	189	707	1 65		

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<u>S</u>	36	33	<u>%</u>	35.91	27	45	85*	643	35.62	41	30.31	56	28.25	35,48		
<u></u>	38	34	100	34.48	28	75	456	41	41.31	9	27.19	27	30.47	33.42		
8	38	35	100%	34.94	53	20	\$6	39	42.1	41	30.88	30	30.64	30.32		
<u></u>	36	36	100%	36.59	33	98 .	204	07	39.5	35	36.34	30	28.25	29.79		
Ś	32.	36	100%	31.36	30	54	<u>\$6</u>	41	7.44	38	28.34	27,	30.48	28.95		
28	32	34	18	30.45	30	25	<b>5.6</b>	41	43.5	37	25.13	29	31.48	28.58		
<b>©</b> ₹	유	3.5	18	28.37	56	27	95%	3	43.7	38	18.71	32	27.54	30.14		
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85	26	31	100%	29.84	54	22	95%	35	34.1	36	29.84	30	33.01	23.76		
<del>(23</del>	×	35	100%	22.05	23	21	45	65	33.1	38	33.74	28	34.55	24.02		
8	×	32	100,	26.89	23	21	07	46	34.2	38	31.13	34	34,53	23.68		
89	25	29	100%	22.74	23	21	38	917	38.8	37	29.20	30	35.18	20.75		
200	25	28	100%	28.87	24	22	36	97	32.8	36	31.43	30	37.11	20.92		
800	25	59	18	23.51	23	21	36	47	22.6	32	27.15	31	35.87	20.84		
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og su led e	Downcime = 1.5%	V	KIMACA KUTTOO MW	NATIONAL STATES		- Plant not raming	•
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807	35.02 26.28	28.63 29.13	26.41 18.47	22.98 12.96	2 50.30 48.5	5.57 29 30100.61 23	, t
3	30.61 26.93	27.33 30.80	25.43 18.16	21.38 13.34	31.95 51.56 50.15	6.07 24,43100,61 22	
000	.66 25.	28.47 24.27	27.47 16.27	23.02 12.54	25.76 49.66 49.09	53.80 24.	3 34.6
	29.56 26.52	28.36 31.60	25.83 18.66	16.34 19.46	32.33 47.98 38.55	29.20 27.77 24	21.7
	27.50 29.81	27.41 31.42	28.59 18.07	11.66 18.51	26.98 44.55 33.95	7 24.24 31.34 24.	C - 75 0
(६३)	33.14 28.25	28.23 29.56	26.15 19.29	7.45 19.03	23.30 45.58 35,29	4.55.26.3	
3:	33.14 28.25	28,23 29,56	26.15 19.29	7.45 19.03		.25 18.71 24.55 26.	1.65.0
Concentration	100,54 1,00	1.00	100 100	1.00, 54 1.00	1.00 1.00		
they Average	100.54 35.67	32.42 31.97	32.14 31.40 1	100.54 21.53	40.78 52.02 52.41	.28 100.57100.61 26.3	67 0
CC		-	0.00			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	- 1

			7						TITUE	MINISTRA MINISTRA	70		0 40.125	CONTRACTOR OF ACTION	
****						Stack	Stack Upacity (%)	(%)	£*					22565 200	· .
	17.	18	19,	50	21.	22.	23	24:	25	56	Ĉĩ.	13	3	00	55 55
Curiy Averages															
	39.63	40.04	50.02	37.02	25.26	42.95	46.50	50.11	51.22	58.09	74.07	42.84	(3.42	зŧ	72.13
	44.38	41.77	51.32	35.63	26.21	50.61	46.74	51.83	50.39	58.16	47.74	24.08	43.42	×	₹. ₹
0.10	43.36	42.56	47.90	38.82	29.10	48.30	50.21	53.65	52.52	56.86	45.30	27.81	41.03	×	70.:1
	47.07	37.27	50.59	35.26	29.52	41.30	46.16	54.12	50.02	57.95	46,55	21.79	50.12	×	70.03
7	47.16	37.68	77.67	41.76	26.93	45.13	44.03	52.78	55.16	55.66	3	22.03	39.43	×	68.05
	75.40	39.52	97.65	39.27	28.97	69.63	76.03	52.93	49.76	64.39	79.77	20.88	98.℃7	×	70.27
7.77	46.12	31.70	50.39	34.98	25.99	52.09	45.20	54.93	96.67	60.09	48.17	20.83	39.48	×	70.64
	37.63	37.55	49.57	43.13	27.02	46.31	65.64	28.28	54.93	94.09	45.86	21.23	41.23	×	70.33
, ,	40.78	42.60	53.56	37.54	28.81	4-7-14	43.38	51.09	49.33	70.31	45.62	21.23	99.05	×	70.84
```	39.33	40.11	95.65	42.0%	72.57	26.51	24.30	51.01	30.05	15.62	2. V 2. V		1 100	ж	65.70
	41.15	48.59	47.63	40.85	26.39	\$0.72	63.55	80.35	60.75	31.49	()	200-1	5.5	×	68.57
	43.20	47.55	78.75	43.83	33.65	30.00	37.22	53.45	48.55	43.88	-5	19.50	42.37	66.69	71.35
· · · · · · · · · · · · · · · · · · ·	33.76	49.09	61.00	45.23	37.54	36.77	35.91	51.91	55.27	48.38	46.30	21.07	44.55	74.63	68.03
*	43.80	46.85	47.77	44.75	31.43	22.77	36.85	55.54	52.97	50.78	46.24	19.49	42.88		67.03
	42.62	⁴ 76°917	37.13	43.34	28.37	21.41	57.12	52.91	52.93	48.93	45.64	19.58	43.27	40.67	63.69
	39.97	46.74	38.83	29.62	2000年	37.63	56.03	51.38	53.48	52.09	42.84	19.21	43.27	63.89	63.59
PI.	96.74	49.91	37.16	25.55	40.55	40.67	48.34	53.09	54.25	46.01	24.83	18.55	43.34	81.55	60.95
	43.81	51.15	35.67	27.45	41.47	43.52	53.08	53.38	57.20	47.07	21.81	20.41	96.44	81.01	64.54
	47.17	45.46	39.84	23.20	43.07	40.78	50.04	53.03	54.30	48.57	21.79	25.37	61.01	80.16	60.13
	74.47	69.63	39.93	22.67	-0.73	4,1,53	51.43	51.44	55.10	817.917	22.05	23.67	87.73	80.38	57.66
·	36.88	50.74	38.70	24.65	51.54	40.86	51.50	50.91	54.40	46,44	20.58	43.42	87.52	78.84	62.15
	41.55	49.63	41.55	27.52	46.16	41.56	51.89	53.60	54.81	43.59	20.68	43.42	86.66	77.88	58.70
1 1	37.91	51.54	38.67	32.16	46.20	41.45	55.90	51.00	57.14	46.08	21.23	41.08	70.68	78.04	57.34
19	37.91	51.54	38.67	32.16	4.5.20	41.45	55.90	51.00	57.14	46.03	21.23	41.08	70.68	78.04	57.34
Concentration	8	100	100	100	100	8.	100	100	100	100	100	100	8	1	3
	47.96	. 51.54	78.75	48.34	51.54	52.09	56.08	55.54	57.20	70.31	67.23	43.42	87.73	1	72.98
Average	42.46	74.87	46.80	35.70	34.89	40.85	48.44	52.16	53.04	52.84	76.60	23.73	51.07	1	66.67

iable 3				ATR	POP CVIALITY	FOPLAR RIVER ATE OFFICER FOR THE OFFICE OF THE OFFICE OF THE OFFICE OFFI	R POWER STATION	STATION				371 1	Legend:	; ; ;		,
Ç				Í		~ ~	Sciry (%)					i X		system down	down	
20 된지.	कर्त	2	ന	7	'n	9	7	ω	σ	10	뒤	12	£1	14	15	16
Nourly Averages																
0100	59.48	57.49	57.38	59.30	.59.12	18.99		8	85.41	68.52	53.09	45.26	.57.68	ũ	1	i
0200	88.83	57.21	59.62	55.88	60.48	68.07	ı	B	84.39	68.53	54.73	48.31	55.98	3	ı	ı
0300	62.16	61.15	58.63	55.51	61.35	67.12	1	ı	89.00	69.49	55.02	51.33	59.48	ı	ŧ	t
0,400	59.36	58.77	58.40	57.03	60.14	98.99	1	ı	96.98	83.84	54.20	47.81	57.38	ı	t	ı
0500	96.09	57.52	56.21	55.84	59.91	67.38	ı	1	100.22	71.88	56.38	49.63	58.22	ı	ı	ı
00%0	59.98	59.20	57.48	57.57	59.90	69.25	ı	ı	76.77	74.40	55.47	51.69	57.66	ı	ı	ı
0700	59.87	55.69	57.66	57.41	60.51	70.51	ı	ı	95.51	72.48	56.29	48.98	55.41	ı	I	1
0300	62.34	56.66	56.95	57.05	62.80	57.51	ı	ı	87.32	70.29	55.51	51.52	57.84	ı	B	â
0060	59.45	99.99	58.45	58.45	88.58	67.97	,	ı	88.	88.89	52.91	50.71	58.88	ı	ı	1
1000	61.11	59.33	75.63	56.91	54.88	68.33	t	ı	77.08	88.12	51.39	42.42	57.23	Ł	ı	t
1100	63.09	60.90	91.05	58.92	50.54	66.15	1	ŧ	76.61	65.92	51.86	48.72	48.85	ı	ı	ı
1200	88.	57.40	89.88	61.23	50.89	58.33	ı	ŧ	77.28	27.17	54.84	50.63	49.13	ı	ı	t
1300	62.32	59.34	88.88	57.72	53.98	54.04	1	ı	77.09	56.30	53.92	55.36	44.32	ı	ı	1
1400	57.68	88.88	70.05	61.17	99.99	55.36	3	ı	66.32	×	48.31	57.33	48.96	ı	ı	E
1500	55.93	58.53	61.45	52.65	57.07	54.71	ı	ı	70.40	59.33	49.87	51.10	ì	ı	ı	ı
1600	59.48	59.05	60.22	56.43	67.52	52,43	E.	23.98	74.39	22.53	47.37	52.02	Ē	ŝ	,	ı
1700	57.38	53.50	59.90	56.16	67.25	54.04		17.81	73.76	23.35	47.77	50.95	3	ı		2
1800	58.22	58.75	59.85	56.73	69.47	53.58	ı	31.75	71.98	34.34	48.03	50.94	1	ı	,	•
1900	57.66	88.23	60.14	56.40	68.46 .×.46	52.76	1	62.52	75.80	53.88	45.18	49.88	1	1		1
. 5000	55.41	28.16	61.20	57.08	71.24	53.63	1	84.74	74.29	54.55	47.42	46.07	ı	ı		ŧ
2100	57.84	60.16	88.8	60.02	71.68	53.65		23.72	73.20	55.40	48.00	50.72	ł	8	1	
2200	88.	59.20	59.52	60.62	65.04	53.77.	1	54.32	72.63	54,30	49.54	49.16	ı			ı
2300	57.23	59.28	59.52	59.87	70.22	. 51.66	3	60.92	70.07	51.05	49.83	51.52	1	ı	ļ.	ì
5,400	56.40	59.28	59.52	59.87	70.22	51.66	ı	50.92	70.07	51.05	49.83	51.52	i -	ı	ı	t
Peak Concentration	68	8	83	88	16	20	1	· t	100.22	ı	27	25			•	
Max, Hourly Average	83.09	61.15	91.05	61.23	71.68		ı	ı	100.22	ı	56.38	57.33				
rage	9	1 152	8	74	141	1 - 24			ForB		T.	50 44				

LVX		-			TR OF	N. W.	A Si N		WFWR.	1	I	1	Jun (C)			
DATE						Stack	Opacity (%)	(%)	. ::			×	Stack ga	x Stack gas system down	down प्र	
TINE	17.	18	19'	50	21.	22.	23	24	25	26	27	28	56	30	31	
Wourly Averages																
0100	ı	1	1	ı	ı	ı	ı	1	ı	ı	70.25	70.25	51.02	64.88		
0500	ı	ı		1.	ı	1	1	ı	1	ı	67.20	67.20	48.90	62.94		
0300	1	1	ı	ı	1				ı	ı	67.15	67.15	47.62	61.44		
0,400	1	1	ı	1	ì	ı	ı	1	ı	ı	64.83	64.83	51.37	10.19		
050	ı	ı	ı	1	ı	1	1	.1	ı	ı	68.29	68.29	53.04	63.33		
0090	1	1	1	ı	1		ı	ı	ı	ı	72.07	72.07	49.93	62.41		
0700	1	ı	ì	1	1	ı	ı	ı	1		68.15	83.15	51.27	58.20		
0000°.		1	1	i	1		ı		ı	ı	70.44	70.44	49.15	54.81		
0360	1.		1	1,	1	1	1	ı	ı	ı	68.97	68.97	50.13	52.52		
1000	ı	1	1	ı	ł	1	1	1	1	ı	67.20	67.20	83.63	53.56		
1100	ı	ı	ı	ı	1	1	1	ı	1	ı	64.36	64.36	92.56	44.75		
1200	1	ı	,	1	'n	1	1	ı	ı	ı	61.24	61,24.	92.10	41.91		
1300	ı	ı	ı	1		1	ı	ı	ı	ı	61.84	61.84	84.16	45.49		
14:00	ı	ı	ı	ı		ı	1	ı	ı	1	59.70	59.70	86.35	46.66		
1500	1	1		ı	1	1	i	ı	ı	ı	60.13	60.13	89.49	47.39		
1600	ı	1		ı	ı	1	,	1	ı	1	58.18	58.18	93.19	42.37		
1700	1	1	1	1		,		1	ı	ı	58.77	58.77	92.38	35.23		
1800	t	ı	1	1	ı	1	1		1	1	63.67	63.67	82.38	35.12		
1900	ı		1	1		ı	1	ı	1	1	68.52	63.52	71.98	34.75		
5000	1			1	ı	1	ı	ı	1	ı	06.99	06.99	70.27	36.01		
. 2100	1	1	ı	1	ı	ı	1	ı	ı	ı	.66.27	66.27	69.09	34.29		
2200	ı	ı	ı		ı	ı		ı	1	ı	57.24	57.24	70.64	32.80		
2300	1	ı	ı	ı	1		1	ı	ı	1	50.74	50.74	70.57	31.45		
121	1		ı	1.	,	ī	1	ı	1	1	51.17	51.17	66.88	34.03		
Peak Concentration	1	ı	,	ı.	ı		,	,	ı	ı	8	8	8	8		
Max. Nourly Average	ı	اح.	ı	ı	1	ı	,	ı	ı	ı	72.07		93.19	64.88		
24 Hour Average	1	1.7	1	ı	1.	ı	1	1	ı	1	61.64	63.89	69.50	47.39		

7370				AIR (AIR QUALITY N	NOVERLY S	LAN MULL POWER STATION NOVIHLY SURMARY FOR DECEMBER	TATTON TOR DECEM	GER			Legend: - Plan	nd: ant not	rumning	
祭5.0 = emails 12 = 12 = 12 = 12 = 12 = 12 = 12 = 12					, , , , , , , , , , , , , , , , , , ,	Stack Opacity	acity (%)	•				C St	*Stack gas system down C Computer problems	system'd problems	nwo
2	-1	2	m	7	CV.	9	7	ထ	6	10	T.	12	13	14	15
Werely Averages															
	000	26.08	. 26,29	22,29	. 20.88	23.54.	24.78	28.38	56	66.10	37.91	35.89	28.25	27.48	×
07.16 1	33.50	25.70	24.96	23.16	21.22	22.72	24.18	28.02	27	64.63	36.70	34.70	26.04	26.86	×
اران اندان	34.55	24.72	23.17	23.40	19.83	22.84	25.20	26.63	82	61.82	35.20	31.82	27.55	26.71	×
8	37.02	24.41	21.81	22.41	19.88	23.11	24.83	25.56	56	61.41	40.56	31.04	26.30	26.05	×
ري: ا	38.19	24.09	22.61	23.28	20.92	23.50	24.32	24.89	92	58.53	41.66	31.79	27.19	24.88	×
8,	88.89	24.09	25.34	23.02	22.05	23.98	23.84	24.59	27	57.80	40.64	33.77	28.11	25.20	×
ري. م	8.11	25.43	22.94	25.44	20.66	23.38	25.49	25.38	82	54.75	40.41	31.35	29.81	25.45	×
CC: (2)	38.4	26.88	22.18	23.13	.20.62	22.89	25.21	24.71	83	52.19	35.38	30.09	30.40	26.70	×
550	ပ	31.55	17.88	23.41	20.88	23.70	24.13	24.66	8	49.16	37.96	28.76	26.99	25.55	×
C. C. C. C. C. C. C. C. C. C. C. C. C. C	47.07	29.59	15.71	22.20	21.09	23.61	24.70	24.83	34.72	45.64	38.70	29.01	24.48	26.35	×
	44.83	28.66	16.30	23.13	20.68	23.37	24.72	23.30	37.29	45.02	35.20	30.55	24.66	25.55	×
	43.98	47.31	17.29	22.85	22.74	23.70	23.78	23.68	74.70	47.77	35.40	26.55	25.76	24.52	×
	28.64	86.73	9.19	22.20	21.80	24.11	23.68	24	ı	42.04	33.55	27.72	26.65	24.85	×
9	29.40	54.37	17.26	22.23	22.73	23.45	22.79	24	ŧ	41.66	33.11	31.49	27.17	29.19	×
•	29.05	28.28	19.23	21.36	22.41	23.56	24.65	24	ı	42.31	33.16	33.33	26.98	28.30	×
	26.86	26.35	19.73	21.91	23.07	23.46	26.26	25	\$	41.13	34.48	28.73	26.88	25.52	· ×
(0)	23.79	26.58	22.41	21.55	23.83	24.05	25.41	56	1	42.66	34.33	28.84	26.30	22.77	×
)3:00 	22.70	26.30	23.55	22.05	23.41	24.46	24.66	52	87.91	41.14	33.45	29.62	25.48	22,50	×
88	24.39	26.98	21.35	21.36	24.13	25.55	25.17	24	88.13	39.38	33.22	30.75	26.00	23.46	×
	. 27.55	27.23	21.05	20.14	25.11	24.04	25.44	25	77.43	39.16	33.81	29.64	26.17	23.41	×
8	26.94	27.89	21.59	21.53	27.47	24.79	24.20	. 52	64.17	33.43	34.72	30.26	25.80	24.01	×
730	26.44	25.99	21.72	20.30	22.50	25.10	24.30	25	60.17	37.84	35.11	32.77	25.23	22.62	×
8	26.43	25.57	22.70	19.57	22.92	24.74	24.71	56	56.52	38.65	33.72	30.59	24.94	22.91	20
3	26.02	25.50	21.79	19.70	23.09	25.30	27.27	56	60.79	37.43	34.67	29.05	27.69	22.52	42
ank Concentration		91	35	65	69	97	[6]	95	1	97	97	001	82	5	ı
	-										,	2	10	3	

42.48

8

27.47

26.28

ix. Sourly Average

22.59

22.44

22.89

27.54

29.95

30.40

21.41

88.09

16

38.95

37.72

36.78

37.18

39.91

36.20

32.74

27.08

25.94

26.78

24.23 25.50 23.55

35.72

										747	20 00		. F.La		13 25
						Stack	Stack Opacity (%)	(%)	· :- -				x Stack 8	gas syste	system down
	17.	18	19.	20	21:	22	23	24	25	26	27	28	56	39	턴
3	31.23	33	26.55	29.40	S	38	27.69	35.89	ŧ	1	1.	ŧ	ŧ	ŧ	ı
<u>~</u>	33.31	<u></u>	28.80	26.55	85	88.02	29.62	34.16	ı	ŧ	1	ŧ	ı	ı	ı
3	32.62	33	28.66	30.38	65	66.58	32.91	32.77	i	1.	ı	ı	i	ı	ı
8	33.18	8	29.81	29.36	8	56.55	31.82	29.55	ı	ı	t		i	ı	ť
8	31.85	. 33	29.93	28.11	55	51.24	27.64	26.27	1	ı	ı	ı	ı	ı	ı
8	31.66	3]	30.33	26.61	<u>S</u> .	46:40	31.20	25.83	ı	ı	i	ŧ	ŧ	ı	,
8	33.84	8	30.05	26.28	45	48.23	28.50	27.10	ı		ı	i	i	ı	i
8	33.18	8	30.38	25.83	45	46.88	27.59	27.33	I	ı	ı	ı	ı	i	1
8	31.40	83	30.34	24.84	45	43.07	27.20	32.79	í	ı	ŧ	ı	i	į	ı
8	29.53	53	30.42	24.09	8	41.48	27.80	t	ı	ı	ı	1	i	ı	1
S	34.40	59	30.33	24.59	8	38.27	28.45	Ι,	ı	ı	ı	ı	ı	,	
8	65.08	8	30.49	24.28	8	37.06	28.08	ŧ	i	t	ı	ı	ı	ı	ı
9	30.45	8	34.85	24.34	75	38.55	27.50	ı	ŧ	1	ı	ı	- 1	ŧ	i
8	21.18	용	32.57	25.00	8	35.85	31.01	1	1	ı	ŧ	ı	ı	ı	i
3	26.19	8	25.54	25.71	R	33.66	29.73	I	ı	ı	ı	ı	ı	ı	í
8	30.18	8	26.15	45.75	2	34.03	27.06	ı	1	ı	ı	ŧ	t	ı	ŧ
8	29.73	8	57.98	90.16	2	31.95	30.08	ı	1	1	1	t	1	i	ŧ
8	29.60	8	66.49	93.31	.8	31.12	29.81	, 1	ı	1	ŧ	ı	i	ı	ı
8	30.21	8	30.84	89.30	38	33.27	30.73	ı	ı	ı	ı	ı	i	ŧ	î
3	29.21	53	26:10	89.83	. 8	36.68	28.77		t	ı	1	i	ŧ	i	78.36
8	29.99	53	24.74	89.88	8	34.88	28.63	i	ı	i	. 1	ŧ	ī	i	
3	31.38	53	30.59	90.28	100	31.10	27.33	1	i	i	ŧ	ı	í	į	
1	31.16	53	28.65	20.05	55	30.32	28,49	÷	ı	ī	ı	ı	ı	ı	56.47
23	31.08	53	33.29	90.39	8	27.93	33.07	ı	ī	1		ı	í	ı	77.09
. : Dencentration	8	96	8	8	9	5	8	i	1	ı	1	4	1	ı	i
A Lourly Average	65.08	8	66.49	93.31	8	38	33.07	ı		ı	ı		i .	1	ı
constitution of	32.07	30.38	30.98	43.52	81.33	43.00	29.20	1	ı	1	1	· 1	ı	-	ŧ

